



INDHOLD		CONTENTS	
Red Line RL60, type 6503	1-1	Red Line RL60, type 6503	1-1
Tilbehør	1-5	Accessories	1-5
Loftssøjle, type 6022	1-5	Ceiling Bracket, type 6022	1-5
Understel, type 6018	1-6	Stand, type 6018	1-6
Red Line RL45, type 6504	1-9	Red Line RL45, type 6504	1-9
Tilbehør	1-12		1-12
• • • • • • • • • • • • • • • • • • • •			

RED LINE RL60, TYPE 6503

Mekanisk stykliste List of Mechanical Parts

1002		Pyntebänd	Ribbon
1003	3340045,		Gasket
1004		Diskant højttaler	Tweeter
1005	3031125		Clamp
1006		ABR enhed	ABR unit
1009	8480177	Bas højttaler	Woofer
1010	3031124		Fitting
1011		Delefilter	Crossover network
1012		Pyntebånd m. tryk	Ribbon with print
1013		Baffel m. stof	Baffle with cloth
1014	3320094	Ramme f. kabinet	Frame for cabinet
		Pakning til ramme	Gasket for frame
1016	3907045	Gummikloda	Rubber block
1018	8480177	Bas højttaler	Woofer
1019	3031124	Beslag	Fitting
1020	2510147	Beile	Clamp
1021	3414857	Kabinet	Cabinet
1022	7210509	Dobbelt stikterminal	Double connection terminal
1024	3031110	Beslag ophæng	Fitting for wall mounting
1025	2514050	Stattebajle	Support bow
1026	2548217	Beslag f. støttebøjle	Fitting for support bow
1027	7210507	DIN stik	DIN socket
1028	3912049	Filtstykke	Felt piece
10L1	6850014	Spole 6,8 mH	Coil 6.8 mH
1	2015112	Skrue 3,5x50	Screw 3.5x50
2	2015108	Skrue 3.5x16	Screw 3.5x16
3	2015111	Skrue 3,5x40	Screw 3.5x40
4	2013118	Skrue 3x8	Screw 3x8

Standard mounting bracket

Adjustment screw

Rock-wool block, small

Rock-wool block, large

Owner's manual

Cable 4 m

Skrueoversigt Survey of screws

Ikke viste dele Parts not shown

3031109 Standard beslag

3506108 Betjeningsanvisning

3922018 Rock-wool klods, lille

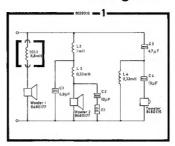
3922019 Rock-wool klods, stor

2044015 Stilleskrue

6270167 Ledning 4 m

Diagram

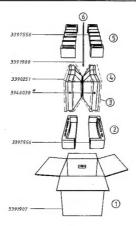
Bang&Olufsen



Elektrisk stykliste List of Electrical Parts

La	6850019	Coil 0.33mH			
L3					
L2	6850153	Coil 1mH	14	6850144	Coil 0.33mH
	4200337	10 pr 20% 25 v	C4	4200273	10 hr 20% 23 v
C2	4200337	10 µF 20% 23V	C4	4200273	15 µF 20% 23V
C1	4200336	6.8 µF 20% 23V	C3	4200387	4.7 µF 20% 23V
R1	5020692	39 Ω 5% 3W			

Pakke procedure Packing procedure



Technical specifications

RMS power handling capacity	60 watts
Music power handling capacity	90 watts
Impedance	8 ohms
Frequency range +4 -8 dB	45-20,000 Hz
Power at 96 dB SPL	2 watts
Sensitivity 1 W	93 dB
Distortion 250-1000 Hz	<1%
Distortion >1000 Hz	<0.5%
Acoustic principle	ABR, Auxiliary Bass Radiator
ABR unit	15 x 33 cm
Woofer	2 units 5" ~ 13 cm
Tweeter	1" - 25 mm
Crossover frequency	2500 Hz
Net. volume	19 litres
Dimensions WxHxD	54 x 40.5 x 18 cm
Weight	9 kg

Subject to change without notic

Oversigt over tilbehør til RL60 Survey of accessories for RL60

Loftssøjle, 8960220 Ceiling Bracket, 8960220

Bang&Olufsen

8960246 Spiralledning 3124101 Opspændingsplade til lette skillevægge

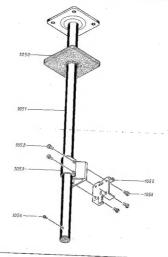
8960220 Loftsseile 8960187 Understel 8960206 Indstillelig vægheslag 3390263 Pose m. dele til

indstillelig vægbeslag

Wall plate for light partition walls Ceiling Bracket

Red Line Cord Stand

Wall Bracket Bag w. parts for Wall Bracket



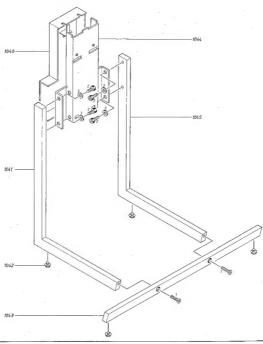
1050	3162224	Darkeel
1051	3103195	Rer
1052		Skrue AM5x10
1053	2644016	Spændeatykke
1054	2042201	Skrue AM4x4
1055	3031109	Standard besize
1056	2044035	Skrue AM5x10

3390262 Pose m. dele 3391922 Emballage

Cover plate Tube Screw AM5x10 Triangle with ribbon Screw AM4x4 Standard mounting bracket

Screw AM5x10 Bag w. parts Packing

Understel, 8960187 Stand, 8960187



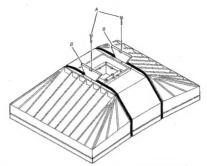
1040	3162218	Dækplade	Cover plate
1041	3930062	Endestykke, venstre	End piece, left
1042	3035026	Gummifod	Rubber foot
1043	2568854	Skinne	Bar
1044	3031119	Beslag	Mounting bracket
1045	3930061	Endestykke, højre	End piece, right
	2316007	Stilleskrue	Adjustment screw
	3031109	Standard beslag	Standard mounting bracket
	3390258	Pose m. delc	Bag w. parts
	2044029	Skrue M5x6	Screw M5x6
	3040016	Sekskantnøgle 4 mm	Hexagon spanner 4 mm
	3040020	Sekskantnegle 2,5 mm	Hexagon spanner 2.5 mm
	3397541	Skumemballage	Foam packing
	3391914	Omslag	Wrapper
	3946013	Plastfolie 1 m	Plastic foll 1 m

Skrueoversigt Survey of screws

2042049 Skrue M4x20 2044012 Skrue M5x10 2622028 Skive Screw M4x20 Screw M5x10 Washer

Adskillelse





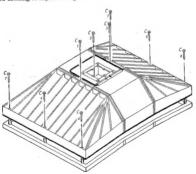
Aftag de to skruer A.

De to spændestykker B med pyntebånd kan nu aftages.

NB! Vær opmærksom på at det kun er det øverste bånd, der er forsynet med tekst, samt at teksten vendes korrekt ved samling af højttaleren igen Remove the two screws A.

The two triangles B with ribbon can now be removed.

NB! Note that only the upper ribbon is supplied with text, and make sure the text is turned correctly when re-assembling.



Aftag de ni skruer C.

Bagparten kan nu tages af.

Ved samling af højttaleren igen skal skruerne spændes i rækkefølgen 1-9, for at sikre at kahinettet er helt tæt.

Anbefalet filspændingsmoment er 15 kp/cm.

Remove the nine screws C.

The rear part can now be removed.

When re-assembling the loudspeaker the screws must be tightened in the order 1-9, in order to ensure that the cabinet is completely tight.

Recommended torque is 15 kp/cm.

Servicetips

Reparationsmetode for skruehuller til kabinetsammenspænding.

Hvis skruerne til kabinetsammenspænding (mærket 3 på tegning) skrues over, kan følgende reparationsmetode anvendes:

Mellemramme (pos. 1014) afmonteres.

De 6 huller i baflen bores op til 6,2 mm.

Indslagsbøsning 2389054 hamres i de opborede huller, indtil de flugter med overfladen.

Højttaleren samles igen, og der anvendes M4 skruer til sammenspænding:

RL45, type 6504, AM4x16 mm, bestillingsnr. 2043035 RL60, type 6503, AM4x25 mm, bestillingsnr. 2043031

Service Tips

Repair method for screw holes for cabinet assembly.

In case the screws for cabinet assembly (marked 3 on the drawing) are stripped, the following repair method may be used:

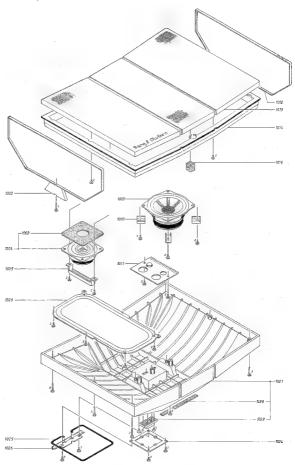
Connecting frame (pos. 1014) is dismantled.

The 6 holes in the baffle are rebored to 6.2 mm.

Drive-fit bushing 2389054 is hammered into the rebored holes, until they flush.

Re-assemble loudspeaker and use M4 screws for assembly:

RL45, type 6504, AM4x16 mm, part no. 2043035 RL60, type 6503, AM4x25 mm, part no. 2043031 RED LINE RI-45, TYPE 6504



Mekanisk stykliste List of Mechanical Parts

1002	3940146	Pyntebånd	Ribbon
1003	3340045	Pakning	Gasket
1004	8480176	Diskant bøjttaler	Tweeter
1005	3031125	Bøjle	Clamp
1006	8480180	ABR enhed	ABR unit
1009	8480178	Bas højttaler	Woofer
1010	3031124	Beslag	Fitting
1011	8039070	Delefilter	Crossover network
1012	3940145	Pyntebånd m. tryk	Ribbon with print
1013	3440086	Baffel m, stof	Baffle with cloth
1014	3320095	Ramme f. kabinet	Frame for cabinet
	3340055	Pakning III ramme	Gasket for frame
1016	3907045	Gummiklods	Rubber block
1021	3414857	Kabinet	Cabinet
*1022	7210509	Dobbelt stikterminal	Double connection terminal
1024	3031110	Beslag ophæng	Fitting for wall mounting
1025	2514050	Støttebøile	Support bow
1026	2548217	Beslag f. støttebøjle	Fitting for support bow
1028	3912049	Filtstykke	Felt piece
1	2015112	Skrue 3.5x50	Screw 3.5x50
		04	

Skrueoversigt Survey of screws

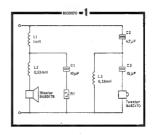
Ikke viste dele Parts not shown

1	2015112	Skrue 3,5x50	Screw 3.5x50	
2	2015108	Skrue 3,5x16	Screw 3.5x16	
3	2015111	Skrue 3,5x40	Screw 3.5x40	
4	2013118	Skrue 3x8	Screw 3x8	
	3031109	Standard beslag	Standard mounting bracket	
	2044015	Stilleskrue	Adjustment screw	
	- 3506108	Betjeningsanvisning	Owner's manual	
	3922018	Rock-wool klods, lille	Rock-wool block, small	
	3922019	Rock-wool klads, stor	Rock-wool block, large	
	6270167	Ledning 4-m	Cable 4 m	

I de første højttalere blev der brugt 2 enkeltstik sort stik nr. 7210483, rødt stik nr. 7210484

The first loudspeakers were fitted with 2 separate sockets, black socket no. 7210488, red socket no. 7210484

Diagram

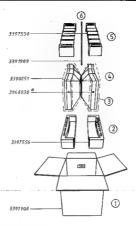


Elektrisk stykliste List of Electrical Parts

R1	5104012	4.7 Ω 10% 3W			
C1	4200337	III µF 20% 23V	СЗ	4200273	15 µF 20% 23V
C2	4200387	4.7 μF 20% 23V			
L1	6850153	Coil 1mfl	L3	6850144	Coil 0.33mH
L2	6850019	Coil 0.33mH			

Pakke procedure Packing procedure

Bang&Olufsen



* Folie 3946038 leveres 1 metermål.

Subject to change without notice

Technical specifications

RMS power handling capacity	45 watts
Music power handling capacity	60 watts
Impedance	8 ohms
Frequency range +4 -8 dB	48-20,000 Hz
Power at 96 dB SPL	2.5 watts
Sensitivity 1 W	92 dB
Distortion 250-1000 Hz	<1%
Distortion >1000 Hz	<1%
Acoustic principle	ABR, Auxiliary Bass Radiator
ABR unit	15 x 33 cm
Woofer	6½" - 16 cm
Tweeter	1" - 25 mm
Crossover frequency	2500 Hz
Net, volume	16 litres
Dimensions WxHxD 1	54 x 40.5 x 16 cm
Weight	7.5 kg

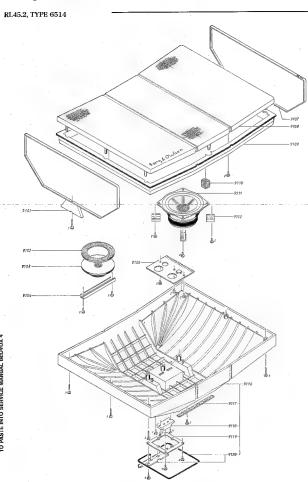
^{*} Foil 3946038 is sold by the metre.

Wall plate for light partition walls

Bang&Olufsen

Oversigt over tilbehør til RL45 Survey of accessories for RL45

8960187 8960206	lette skillevægge Loftssøjle Understel Indstillelig vægbeslag Pose m. dele til indstillelig vægbeslag	Celling Bracket Stand / Wall Bracket Bag w. part for Wall Bracket
Loftssøjle, 896 se side 1-5	60220	Ceiling Bracket, 8960220 see page 1-5
Understel, 896 se side 1-6	60187	Stand, 8960187 see page 1-6
Adskillelse se side 1-7	-	Disassembly see page 1-7
Servicetips se side 1-8		Service Tips see page 1-8



Mekanisk stykliste List of Mechanical Parts

Skrueoversigt Survey of screws

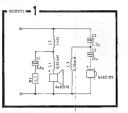
Ikke viste dele Parts not shown

Diagram

Elektrisk stykliste List of Electrical Parts

07045 880178 40048 331124 114857 912049 331110 114050 919012 919012 919013 919013 919013 913123	Gummittoda Bas hojitaler Palcaing f. has hojitaler Beeslag Rabinet Rab	Rubber block Woofer Gasiset for woofer Fitting Cabinite Cabinite Double connection terminal Fitting for wall mounting Support bow with fitting Screw 4x50 Screw 4x50 Screw 4x16 Screw 4x40 Screw 4x10
07045 80178 40048 41124 114857 112049 10509 131110 114050 119012 119011 119013 119009	Bas hojitaler Pakoing f. bas hojitaler Beslag Kabinet Dabbelt stikterminal Beslag ophæmg Støttebøjle m. beslag Skrue 4x50 Skrue 4x16 Skrue 4x16 Skrue 4x10	Wooder Gasket for wooler Fitting Cabinet Pett piece Double connection terminal Fitting for wall mounting Support bow with fitting Screw 4x50 Screw 4x16 Screw 4x40 Screw 4x40 Screw 4x12
07045 80178 40048 41124 114857 112049 10509 131110 114050 119012 119011 119013 119009	Bas hojitaler Pakoing f. bas hojitaler Beslag Kabinet Dabbelt stikterminal Beslag ophæmg Støttebøjle m. beslag Skrue 4x50 Skrue 4x16 Skrue 4x16 Skrue 4x10	Wooder Gasket for wooler Fitting Cabinet Pett piece Double connection terminal Fitting for wall mounting Support bow with fitting Screw 4x50 Screw 4x16 Screw 4x40 Screw 4x40 Screw 4x12
07045 80178 40048 41124 114857 112049 10509 131110 114050 119012 119012	Bas hojitaler Palasing f. bas hejitaler Palasing f. bas hejitaler Bealag Kabinet Fillstykke Dobbeli estiteerminal Bealag ophæng Stattebojle in. bealag Skrue 4x50 Skrue 4x16 Skrue 4x40	Wooder Gasket for woofer Fitting Cabinet Felt piece The
07045 80178 840048 831124 114857 912049 910509 831110 614050	Bas hojitaler Pakning f. has hojitaler Bestag Kabinet Filistykke Dobbelt stiterminal Beslag ophæng Støttebøjle m. beslag Skrue 4x50 Skrue 4x50	Wooder Gasket for wooler Fitting Cabinet Pett piece Double connection terminal Fitting for wall mounting Support bow with fitting Screw 4x50 Screw 4x16
07045 80178 440048 431124 114857 912049 910509 431110 614050	Bas højttaler Pakaing f. bas højttaler Beslag Kabinet Fillstykke Døbbelt stikterminal Beslag ophæng Støttebøjle m. beslag	Woofer Gastet for woofer Hiting Cabinet Petr piece Double connection terminal Fitting for wall mounting Support bow with fitting Screw 4x50
07045 80178 40048 931124 114857 912049 910509 931110	Bas højttaler Pakning f. has højttaler Beslag Kabinet Fillstykke Døbbelt stikterminal Beslag ophæng	Woofer Gasket for woofer Fitting Cabinet Felt piece Double connection terminal Fitting for wall mounting
07045 80178 40048 931124 114857 912049 910509 931110	Bas højttaler Pakning f. has højttaler Beslag Kabinet Fillstykke Døbbelt stikterminal Beslag ophæng	Woofer Gasket for woofer Fitting Cabinet Felt piece Double connection terminal Fitting for wall mounting
07045 80178 40048 931124 114857 112049 110509	Bas højttaler Pakning f. has højttaler Beslag Kabinet Fillstykke Dobbelt stikterminal	Woofer Gasket for woofer Fitting Cabinet Felt piece Double connection terminal
07045 80178 40048 931124 114857 912049	Bas højttaler Pakning f. bas højttaler Beslag Kabinet Filtstykke	Woofer Gasket for woofer Fitting Cabinet Felt piece
07045 80178 40048 931124 14857	Bas højttaler Pakning f. bas højttaler Beslag Kabinet	Woofer Gasket for woofer Fitting Cabinet
07045 80178 40048 931124	Bas højttaler Pakning f. bas højttaler Beslag	Woofer Gasket for woofer Fitting
07045 80178 40048	Bas højttaler Pakning f. bas højttaler	Woofer Gasket for woofer
07045 80178	Bas højttaler	Woofer
07045		
	Pakning til ramme	Gasket for frame
		Frame for cabinet
		Baffle with cloth
		Ribbon with print
		Crossover network
		Fitting
		Tweeter
		Gasket
		Ribbon
	40067 80199 31143 39072 40186 40099	40146 Pyntebûnd 40067 Palming 80199 Diskant højttaler 31143 Beslag 39072 Delefilter 40185 Pyntebånd m. tryk 40099 Baffel m. stof 20095 Ramme f. kabinet

3031109 Standard beslag Standard mounting bracket 2044015 Stillesizus Adjestment serew Aspezul Rock-wool idoda, tille Rock-wool bleck, small Rock-wool bleck, sm



R1	5104012	4.7 Q 10% 3W			
		6.8 μF 20% 35V 4.7 μF 20% 23V	C3	4200273	15 µF 20% 23V

For udskiftning af spoler L1 - L3 bestilles komplet delefilter.

When replacing coils L1 - L3, order complete crossover network.

Technical specifications RL 45.2

RMS power handling capacity	45 watts		
Music power handling capacity	60 watts		
Impedance	■ ohms		
Frequency range +4 -8 dB	48-20,000 Hz		
Power at 96 dB SPL	2.5 watts		
Sensitivity 1 W	92 dB		
Acoustic principle	Bass Reflex		
Woofer	6 ¹ /2" - 16 cm		
Tweeter	3/4" - 1.9 cm		
Crossover frequency	2500 Hz		
Net, volume	16 litres		
Dimensions W x H x D	54 x 40.5 x 16 cm		
Weight	6.8 kg		

Subject to change without notice

Technical specifications RL 60.2

RMS power handling capacity	60 waits	
Music power handling capacity	90 watts	
Impedance	8 chms	
Frequency range +4 -8 dB	42-20,000 Hz	
Power at 96 dB SPL	2 watts	
Sensitivity 1 W	93 dB	
Acoustic principle	Bass Reflex	
Woofer	2 units 5" - 13 cm	
Tweeter	1" - 2.5 cm	
Crossover frequency	3500 Hz	
Net. volume	19 litres	
Dimensions W x H x D	54 x 40.5 x 18 cm	
Weight	8.3 kg	

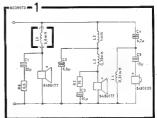
RL60.2, TYPE 6513	· _
	1100
	-1108 -1108 -1109
	2910
9101	7119
9102	9106
9104 24	
	7716
	9117-
	9779

Mekanisk stykliste

List of Mechanical Parts	9102	3340066	Pakning	Gasket	
LIST OF MECHANICAL FAITS	9103	8480200	Diskant heittaler	Tweeter	
	9104	3031143		Fitting	
	9105	7210507		DIN socket	
	9106		Delefilter	Crossover network	
	9107	3940187	Pyntebånd m. tryk	Ribbon with print	
	9108		Baffel m. stof	Baffle with cloth	
	9109	3320094	Ramme f. kabinet	Frame for cabinet	
			Pakning til ramme	Gasket for frame	
	9110		Gummiklods	Rubber block	
	9111		Bas højttaler	Woofer	
	9112	3031124		Fitting	
	9113		Bas højttaler	Woofer	
	9114	3031124		Fitting	
	9115	2510151		Clamp	
	9116	3414857		Cabinet	
	9117		Filtstykke	Felt piece	
	9118		Dobbelt stikterminal	Double connection terminal	
	9119		Beslag ophæng	Fitting for wall mounting	
	9120	2514050	Støttebøjle m. beslag	Support bow with fitting	
	91L1	6850186	Spole 6,8 mH	Coll 6.8 mH	
an to					
Skrueoversigt				Screw 4x50	
Survey of screws	1		Skrue 4x50 Skrue 4x16	Screw 4x16	
	s		Skrue 4x10	Screw 4x40	
	8		Skrue 4x40	Screw 4x40	
	4		Skrue 4x12 Skrue 3x10	Screw 3x10	
	5	2013123	Skrue 3x10	Screw 5x10	
Ikke viste dele		2071100	Standard bealag	Standard mounting bracket	
Parts not shown			Stilleskrue	Adjustment screw	
			Rock-wool klods, lille	Rock-wool block, small	
			Rock-wool klods, stor	Rock-wool block, large	
			Ledning 4 m	Cable 4 m	
			Betieningsanvisning	Owner's manual	
			Yderæske	Outer carton	
		3391909		Insert	
			Skumemballage sæt	Foam packing set	
			Folie pose	Foil bag	
Diagram	_				

3940138 Pyntebånd

9101



Elektrisk stykliste List of Electrical Parts

R2	5100200 15 Ω 10% 3W	R6	5100242 6.8 Ω 5% 3W		
C1	4200468 22 µF 20% 23V	C4	4200387 4.7 µF 20% 23V		
C2	4200336 6.8 µF 20% 23V	C5	4200273 15 µF 20% 23V		
C3	4200337 10 µF 20% 23V				

For udskiftning af spoler L2 - L4 bestilles komplet delefilter.

When replacing coils L2 - L4, order complete crossover network.

RL 140, TYPE 6501

Mekanisk	stykliste	
List of Me	chanical	Parts

9001	3940158	Pyntebånd uden tryk	Ribbon without print
9002	7210506	DIN-stik	DIN socket
9003	8006015	Delefilter	Crossover network
9004	8480190	Mellemtone-højttaler	Mid-range loudspeaker
9005*	3031124	Beslag f. mellemtone-højttaler	Fitting for mid-range loudspeaker
9006*	3907045	Gummiklods	Rubber block
9007	3160030	Dæksel f. mellemtoue-højttaler	Cover f. mid-range loudspeaker
9008	3458410	Rør f. bas port	Tube £ port .
9009	3414557	Kabinet	Cabinet
9010	3940159	Pyntebånd med tryk	Ribbon with print
9011	3440089	Baffel m. stol og rør f. bas port	Baffle with cloth and tube f. port
9012	3320101	Ramme va. pakning f. kabinet	Frame with gasket for cabinet
	3340062	Pakning f. ramme	Gasket for frame
9013	8480186	Bas-højttaler	Woofer
9014	3031124	Beslag f. bas-højttaler	Fitting for woofer
9015	8480186	Bas-højttaler	Woofer
9016	3031124	Beslag f. bas-højttaler	Fitting for woofer
9017	3340064	Pakning f. diskant-højttaler	Gasket for tweeter
9018	8480191	Diskant højttaler	Tweeter
9019**	3031143	Beslag f. diskant-højttaler	Fitting for tweeter
9020	2514052	Statteboilc	Support bow
9021	3031115	Beslag ophæng	Fitting for wall mounting
9022	3907048	Dæmpegummi f. stottebøjle	Damping rubber L support bow
9023	7210509	Dobbelt stikterminal	Double connection terminal
9024	3340063	Pakning f. mellemtone-højttaler	Gasket for mid-range loudspeaker

Skrueoversigt Survey of screws

Ikke viste dele Parts not shown

_			
	2044015	Stilleskrue	Adjustment screw
		Standard beslag	Standard mounting bracket
		Ledning 4 m	Cable 4 m
		Skumemballage sæt	Foam packing set
	3391961	Yderæske	Outer carton
		Pose f. højttaler	Bag for loudspeaker
		Betjeningsanvisuing	Owner's manual
	3922020	Rock-woll klods 150 x 450 mm	Rock-wool block 150 x 450 mm
	3922021		Rock-wool block 75x450 mm
	3922026	Rock-wool klods 120 x 150 mm	Rock-wool block 120x150 mm
	3922022	Rock-wool klods 75 x 200 mm	Rock-wool block 75 x 200 mm

3922027 Rock-wool klods 49x500 mm Rock-wool block 49x500 mm

Screw 4 x 16

Screw 4 x 50

Screw 3.5 m 16 Screw 3.x 10

"In loudspeakers with serial no. before

3397001 rubber block pos. no. 9006 is used, after no. 3397001 fitting pos. no. 9005 is

I hojitalere med apparat nr. for 3397001 bruges gummiklods pos. nr. 9006 efter 3397001 bruges beslag pos.nr. 9005.

2019011 Skrue 4 x 16

2019012 Skrue 4 x 50

... 2013123 Skrue.3.x.10

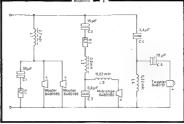
2015113 Skrue 3,5 x 16

**I de første hejttalere blev beslag nr. 3031125 brugt. *In the first loudspeakers fitting

used no. 3031125 was used.

Bang&Olufsen

Diagram



Elektrisk stykliste List of Electrical Parts

₹1	5100310	4.7 Ω 10% 9W	R2	5100296	2.2 Ω 10% 7W
C1	4200673	39 µF 20% 35V	C4	4200125	3.3 µF 20% 23V
C2		15 µF 20% 35V	C5	4200337	10 µF 20% 23V
C3	4200457	6.8 µF 20% 35V			

For udskiftning af spoler L1 - L4 bestilles komplet delefilter.

When replacing coils L1 - L4, order complete crossover network.

Technical specifications

RMS power handling capacity	140 watts			
Music power handling capacity	200 watts			
Impedance	8 ohms			
Frequency range +4 -8 dB	40-20,000 Hz			
Power at 96 dB SPL	2 watts			
Sensitivity 1 W	93 dB			
Distortion 250-1000 Hz	<0.7%			
Distortion >1000 Hz	<0.5%	-		
Acoustic principle	Bass Reflex			
Woofer	2 units 61/2" - 16.5 cm			
Midrange	5" - 13 cm			
Tweeter	1" - 2.5 cm			
Crossover frequency	800/3000 Hz			
Net. volume	38 litres			
Dimensions W x H x III	70 x 50 x 24 cm			
Weight	15 kg			

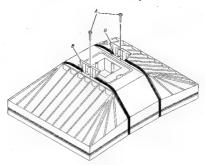
Polaritet på diskanthøjttaler Polarity on tweeter



Subject to change without notice

Adskillelse





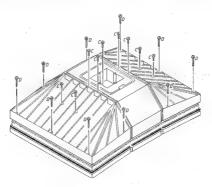
Aftag de to skruer A.

De to spændestykker B med pyntebånd kan nu aftages.

NBI Vær opmærksom på at det kun er det øverste bånd, der er forsynet med tekst, samt at teksten vendes korrekt ved samling af højttaleren igen. Remove the two screws A.

The two triangles B with ribbon can now be removed.

NB! Note that only the upper ribbon is supplied with text, and make sure the text is turned correctly when re-assembling.



Aftag de ni skruer mærket C, og de ti skruer mærket

Bagparten kan nu tages af.

Ved samling af højttaleren igen anbefales et tilspændingsmoment på 16,5 kp/cm.

Remove the nine screws marked C and the ten screws marked D.

The rear part can now be removed.

When re-assembling the loudspeaker, a torque of 16.5 kp/cm is recommended.

Oversigt over tilbehør til RL140 Survey of accessories for RL140

Loftssøjle, 8960230 Ceiling Bracket, 8960230

Bang&Olufsen

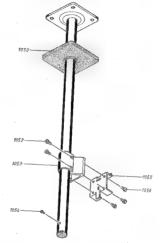
8960276 Spiralledning 3124107 Opspændingsplade til lette skillevægge

8960230 Loftssøjle 8960197 Understel 8960216 Indstillelig vægbeslag

3390263 Pose m. dele til indstillelig vægbeslag Red Line Cord Wall plate for light partition walls

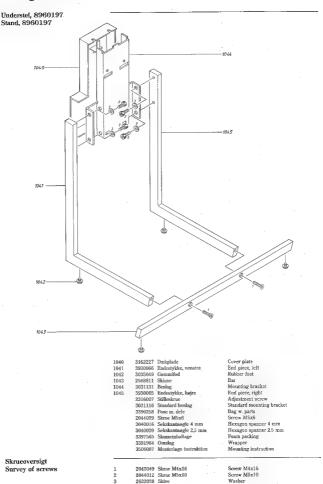
Ceiling Bracket Stand

Wall Bracket Bag w. parts for Wall Bracket

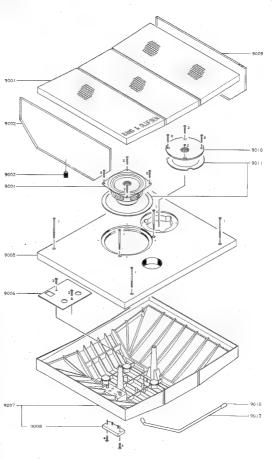


10 10 10 10 10 10	53 54 55	2644000 2042201 3031116 2044035 3390262	Dæksel Skrue AM5x10 Spændestykke Skrue AM4x4 Standard beslag Skrue AM5x10 Pose m. dele Monterings instruktion
----------------------------------	----------------	---	---

Cover plate
Screw AM5x10
Triangle with ribbon
Screw AM4x1
Standard mounting bracket
Screw AM5x10
Bug w. parts
Mounting instruction



RL 35, TYPE 6515



TO PASTE INTO SERVICE MANUAL BEOVOX 4

12-86

Bang & Olufsen

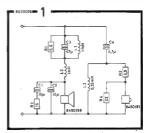
		Darte

9001 9002	3450698 3940195	Frame with cloth Ribbon without print	9008	7210662	Double connection terminal
9003	2630025	Clamping pin	9009	3940197	Ribbon with print
9004	8480198	Woofer	9010	8480181	Tweeter
9005	3440103	Front frame with gask	et9011	3340050	Set of gaskets
	3947202	Gasket, by the meter	9012	3341063	Rubber foot
9006	8039076	Crossover network	9013	2514063	Support bow
9007	3414054	Cabinet			
1	2015112	Screw 3.5 x 50	3	2019009	Screw 3 x 12
2	2084046	Screw 3.5 x 25	4	2013123	, Screw 3 x 10
	3390296 3391888	Bag Outer carton		3922031	Damping material, small
	3397615	Foam packing, set		6270167	Cable 4 m
	3922030	Damping material, big		3506132	Owner's manual

Parts not shown

Survey of screws

List of Electrical Parts



III	5100297	5.6Ω 10% 3W	R3	5100295	3.9Ω 10% 3W
R2	5100200	15Ω 10% 3W	R4	5100196	22Ω 10% 3W
C1		10 μF 20% 23V	C3	4200729	47 μF 20% 23V
C2		10 μF 20% 23V	C4	4200387	4.7 μF 20% 23V

When replacing coils L1-L3, order complete crossover network.

Technical specifications

RMS power handling capacity	35 watts	
Music power handling capacity	50 watts	
Impedance	8 ohms	
Frequency range +4 -8 dB	48-20,000 Hz	
Power at 96 dB SPL	2.5 watts	
Sensitivity 1 W	92 dB	
Distortion 250-1000 Hz	<1%	
Distortion >1000 Hz	<0.7%	
Cabinet principle	Bass Reflex	
Woofer	5" - 13 cm	
Tweeter	3/4" - 1.8 cm	
Crossover frequency	3500 Hz	
Net. volume	10 litres	
Dimensions W x H x D	40 x 32 x 12.5 cm	
Weight	3.5 kg	

Subject to change without notice

Beolab Penta

Type 6601, 6602, 6603, 6604, 6605

Beovox Penta

Type 6611



Bang&Olufsen

INDHOLD		CONTENTS	
Diagrammer			
Halvlederoversigt	2-5	Semi-conductors	2-5
Elektrisk stykliste	2-8	List of electrical parts	2-8
Mekanisk stykliste	2-11	List of mechanical parts	2-1
Justeringer	2-15	Adjustments	2-1
Tekniske specifikationer	2-15	Technical specifications	2-1
Adskillelse	2-17	Dismantling	2-1
Servicetips	2-17	Service tips	2-1
Isolationstest	2-21	Insulation test	2-2

DIAGRAMFORKLARING

På diagrammet er der angivet typenumre på transistorer og IC'er i de tilfælde hvor typenummeret er entydigt for komponenters placering i kredsløbet – f.eks. TR20/BC 557B

Hvis positionsnummeret er efterfulgt af en stjerne skal reservedelsnummeret benyttes, da denne komponent er specielt udvalgt – f.eks. TR102*.

Koordinatsystem

De største printplader er forsynet med et koordinatsystem. Komponenterne på disse printplader er på diagrammet forsynet med en koordinatbetegnelse, som fortæller i hvilket felt på printpladen de er placeret (mindre skrifttype end positionsnummeret – feks. B3).

Ledningsforbindelser

Ledningsforbindelser på diagrammet er samlet i »bundter«. De enkelte ledninger er forsynet med koder, der fortæller hvortil de går.

INTERN FORBINDELSE PÅ EN DIAGRAMSIDE

EXPLANATION OF DIAGRAM

Type numbers of transistors and IC's have been indicated on the diagram in those cases where the type number is unambiguous for the position of the component in a circuitry – e.g. TR20/BC 557B.

If the position number is followed by an asterisk the spare part number must be used because this component has been expecially selected - e.g. TR102*.

System of Co-ordinates

The largest PC-boards have been provided with a coordinate system. The components on these PC-boards are provided with a grid reference on the diagram indicating in what grid they are positioned on the PCboard (smaller typing than position numbers – e.g. B3).

Wiring Connections

The wiring connections on the diagram are assembled in »bundles«. The individual wires are coded to indicate to where they are leading.

INTERNAL CONNECTION ON ONE DIAGRAM PAGE



Interne forbindelser på en diagramside angives med et tal. Knækket på ledningen viser i hvilken retning den anden ende af ledningen findes. Internal connections on a diagram page are indicated by mnumber. The bend of the wire indicates in which direction the other end of the wire may be found.

Forsyningsspændinger

En pil og spændingen viser, hvor forsyningsspændingerne går ind i et print.

Eksempel: (7 CON.) f.eks. ved siden af forsyningsspændingen angiver det antal stedet, spændingen går ind på denne diagramside.

Symbol for sikkerhedskomponenter



Ved udskiftning af komponenter med dette symbol skal der anvends komponenter med samme reservedelsnummer. Den nye komponent skal monteres på samme måde som den udskiftede.

MÅLEBETINGELSER

Alle DC spændinger er målt i forhold til stel. med voltmeter med en indgangsmodstand på 10 Mohm.

Spændingerne er målt uden signaltilføring.

Supply Voltage

An arrow and the voltage show where the supply voltages are fed to a PCB.

Example: (7 CON.) next to the supply voltage indicates the number of places where to find the voltages in this diagram.

Symbol for Safety Components



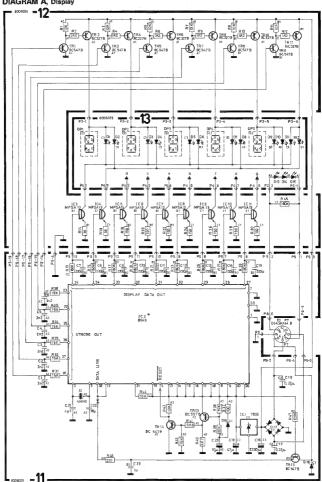
When replacing components with this symbol components with identical part numbers are to be used. The new component must be fitted in the same way as the one replaced.

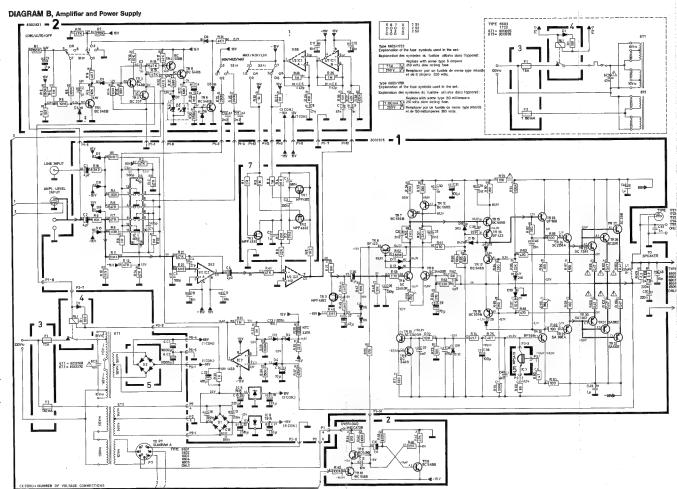
MEASURING CONDITIONS

All DC voltages have been measured in relation to ground with voltmeter with an input resistance of 10 Mohms.

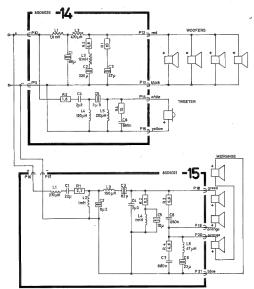
The voltages have been measured without any supply of signal.











Transistors

SEMI CONDUCTORS

						•			
17	18		19	20	24	27		44	
			· (E)			Dale	_	<u></u>	
	8		B E		5 (
		J_				[. <u>*</u>]		111	
102	103		105	123	124	136			
استخ	22		0	[0]	40	n	-ñ		
2	<u> </u>		m	TITL	1	*	ارك		
		<u> </u>	IN _ OUT	in our				1	
209	214	Ļ	215	217					
^	<u> </u>		-	4.			1		
11-		1		violet					
		-					- k		
1TR3 *Δ	8320396	24 24	MPF 4:		1TR23	8320646	44	BF 858	
		24	2N 439 2N 560		1TR28		_		
	-		214 300						
1TR6	8320454	17	BF 423	3	2TR1	8320108	20	BC 172	28
					2TR2		20	BC 183	
1TR7	8320152	_	BC 21				17	BC 183	
		17	BC 21				20	BC 238	
		20 18	BC 25				20	BC 548	SB
		20	BC 55		2TR3	8320598	20	BC 337	7-40
		27	2SA 84						
					2TR4	8320152	20	BC 212	B/BK
1TR8-	8320641		SC 22	40 GR			17	BC 212	
1TR10							20	BC 251	
1TR11	0000100	00	DO 47				18	BC 307	
11811	8320108	20	BC 17				20	BC 557	
		17	BC 18	_				20/10-	
		20	BC 23		2TR5	8320108	3 20	BC 172	2B
		20	BC 54	BB	2TR6		20	BC 183	BB/BK
					2TR8-		17	BC 183	
1TR12	8320152		BC 21		2TR10		20	BC 238	
1TR15		17 20	BC 21	_			20	BC 548	38
		18	BC 25						
		20	BC 55		7TR1-	*A8320396	3 24	MPF 4	392
		27	2SA 8		7TR3		24	2N 439	
							24	2N 563	39
1TR16	8320454	17	BF 423	3					
	080045		20.7		44990			DO 5 ::	nm (m) (
1TR17	8320108	20 20	BC 17		11TR13	8320152	17	BC 212	
		17	BC 18				20	BC 25	
		20	BC 23				18	BC 30	
		20	BC 54	_			20	BC 55	
							27	2SA 84	14
1TR18	8320152		BC 21						
		17	BC 213		11TR14	8320097		BC 18	
		20 18	BC 25		11TR15		17	BC 18	
		20	BC 55				20	BC 54	
		27	2SA 84						
		-	-						

12TR1	8320097	20	BC 182B/BK	12TR7	8320097	20	BC 182B/BK
		17	BC 182BL			17	BC 182BL
		20	BC 237B			20	BC 237B
		20	BC 547B			20	BC 547B
12TR2	8320331	20	BC 328-25/18	-12TR8	8320331	20	BC 328-25/18
12TR3	8320097	20	BC 182B/BK	12TR9	8320097	20	BC 182B/BK
121110		17	BC 182BL	12.110		17	BC 182BL
		20	BC 237B			20	BC 237B
		20	BC 547B			20	BC 547B
		20	DO 2410			20	
121R4	8320331	20	BC 328-25/18	12TR10	8320331	20	BC 328-25/18
12TR5	8320097	20	BC 182B/BK	12TR11	8320097	20	BC 182B/BK
		17	BC 182BL			17	BC 182BL
		20	BC 237B			20	BC 237B
		20	BC 547B	-		20	BC 547B
			50 0415				50 0.115
12TR6	8320331	20	BC 328-25/18	12TR12	8320331	20	BC 328-25/18
1IC1	> 8340202	102	CD-4066-BCN	-2101	-RAUUNAR	103	MC 1458 CP1
1101	2004000		HEF 4066 BP	2101	0010010	103	
			MC 14066 BCP			103	MC 1458 P
			MSM 4066 RS			103	SFC 2458 DC
		102	1000110			100	010 1400 00
1IC2	8340763	136	LF353-TL072				
				5IC1	8340054		MPS A13
1IC3	8340048	_	MC 1458 CP1			19	TPS A13
			MC 1458 N				
			MC 1458 P				
		103	SFC 2458 DC	11IC1	8340212	105	7805
1IC5	8340064	105	UA 7815	11IC2	8340836	124	UP 8049
		105	UA 7815 UC				
		105	LM 340 T-15				
				12lC3-	8340054		MPS A13
1fC6	8340240	_	LM 320 T-15	12lC11		19	TPS A13
·		123					
		123	UA 7915 UC				
1D1	8300466		B125 C1500	1D21	8300407	209	BZX79B 12
						209	BZX83B 12
1D2-	8300058	217	SFD 184			209	ZPD 12V
1D12		209	1N 4148				
		215	1N 4148				·
				2D1	8300058		SFD 184
1D15	8300409	214	BAV 20-25	2D3-		209	1N 4148
			7.00	2D7		215	1N 4148
1016	9200644						
1D16	8300541		Z 3V3				
1D16			SFD 184	4D1	8300058	217	SFD 184
				4D1	8300058	217 209	SFD 184 1N 4148

IC's

Diodes

5D2	8300497		KBU 6D	13D1-	8330162	LED yellow
				13D15		
11D16	8300058	217	SFD 184 .			
		209	1N 4148	13DP1-	8330163	Display
		215	1N 4148	13DP5		7-segm. yellow
11D17	8300466		B125 C1500			
11D18	8300407	209	BZX79B 12			
		209	BZX83B 12			
		209	ZPD 12V			

- △ betyder at statisk elektricitet kan ødelægge komponenten.
- △ indicates that static electricity may destroy the component.
- ∆ bedeutet, daß statische Elektrizität die Komponente zerstören kann.
- △ signigi que électricité statique peut detruire le composant.
- * Speciel udvalgt eller bearbejdet eksemplar.
- Specially selected or adapted sample.
- Speziell ausgewähltes und bearbeitets Exemplar.

LIST OF ELECTRICAL PARTS

LIST OF ELECTRICAL PARTS

Standard resistors: Resistors 5% 1/2 W Resistors not mentioned are standard resistors

	X1	X10	X100	X1K	X10K	X100K	X1M	X10M
1.0 1.2 1.5	5011406 5010727	5011000 5011001 5011002	5011013 5011014 5011015	5011028 5011030 5011031	5011044 5011045 5011046	5010313 5011058 5011059	5011069 5010421 5011071	5011083
1.8 2.2 2.7	5010857 5011335	5010787 5010708 5010803	5011016 5010815 5011018	5011033 5011034 5010055	5011047 5011048 5011049	5011061 5011062	5011072 5011074 5011075	
3.3 3.9 4.7	5010255 5010765	5011007 5010782 5011009	5011019 5011021 5011022	5011037 5010700 5010035	5011051 5010036	5011063 5011065	5010381 5010392 5011078	
5.6 6.8 8.2	5010874	5011010 5011011 5011012	5011023 5011024 5011026	5011041 5011042 5011043	5010810 5010038	5011066 5011067 5011068	5011079 5011080 5011081	

Resistors 5% 1/4 W

	X1	X10	X100	X1K	X10K	X100K	XIM	X10M
1.0 1.2 1.5	5010592	5010506 5010595 5010468	5010065 5010128 5010057	5010040 5010153 5010247	5010059 5010046 5010053	5010049 5010047 5010063	5010054 5010665 5010093	5010638
1.8 2.2 2.7	5010682 5010925	5010822 5010448 5010403	5010362 5010092 5010000	5010066 5010064 5010298	5010135 5010079 5010141	5010072 5010120 5010083	5010791 5010245 5010431	
3.3 3.9 4.7	5010888	5010253 5010622 5010411	5010044 5010070 5010058	5010076 5010069 5010048	5010075 5010060 5010045	5010117 5010073 5010077	5010848 5010714	
5.6 6.8 8.2	5010706 5010904 5010880	5010151 5010039 5010056	5010067 5010144 5010068	5010041 5010052 5010154	5010061 5010062 5010091	5010071 5010074 5010505	5010658	

Amplifier, 8002915, PCB 1

Li	6850114	Coil 0.5 µH	_		
P1 P2	7220143 7220203	Plug 14 pol. Plug 10/9 pol.	P3 P5	7220313 7220196	Plug 3 pol. Plug 4/3 pol.
C25	4200431	10 μF 20% 16V	C50	4130308	220 nF 10% 63V
C22	4200704	470 µF 20% 25V	C49	4130155	1 pF 10% 100V
C21	4200509	- 33 μF 20% 25V	C48	4012002	10 nF -20+50% 400V
C20	4200311	220 µF -20+100% 40V	C47	4130308	220 nF 10% 63V
C19	4200509	33 µF 20% 25V	C46	4130155	1 µF 10% 100V
C18	4200311	220 µF -10+100% 40V	C45	4130195	22 nF 5% 250V
C17	4130179	100 nF 20% 63V	C40	4010063	4.7 nF 10% 63V
C16	4130179	100 nF 20% 63V	C39	4200478	100 μF 20% 10V
C15	4130179	100 nF 20% 63V	C38	4010024	- 470 pF 10% 63V
C14	4200431	10 μF 20% 16V	C37	4010063	4.7 nF 10% 63V
C13	4130179	100 nF 20% 63V	C36	4000020	4.7 pF 0.25 pF 63V
C11	4010041	10 nF -20+80% 40V	C35	4003059	22 pF 5% 500V
C10	4010041	IIII nF -20+80% 40V	C34	4010061	2.2 nF 10% 63V
C7	4010064	560 pF 10% 63V	C33	4010061	2.2 nF 10% 63V
C6	4010064	560 pF 10% 63V	C32	4010061	2.2 nF 10% 63V
C5	4200423	2.2 µF 20% 50V	C31	4200652	100 µF 20% 100V
CI	4000136	22 pF 5% 63V	C30	4010027	1 nF 10% 63V
C3	4100232	100 pF 85 63V	C29	4200665	470 µF 20% 6,3V
C2	4200477	4.7 µF 20% 25 V	C27	4200476	0.47 µF 20% 50V
C1	4200477	4.7 µF 20% 25V	C26	4100234	220 pF 5% 63V
R73	5020127	10 kΩ 5% 1W			
R59	5370351	220 Ω 20% 0.1W	R104	5100203	0.47 Ω 10% 2W
R57	5020200	2.1 kΩ 1% 1/4W	R103	5100203	0.47 Ω 10% 2W
R56	5020200	2.1 kQ L% 1/4W	R102	5100203	√ 0.47 Ω 10% 2W
R35	5220036	330 kΩ 10% 1/2W	R101	5100203	0.47 Ω 10% 2W
R11	5020363	51.1 kΩ 1% 1/4W	R100	5100203	. 0.47 Q 10% 2W
R8	5020126	113 kQ 1% 1/4W	R99	5100203	0.47 \(\Omega\) 10% 2W
R4	5020126	113 kΩ 1% 1/4W	R95	5370341	100 Ω 20% 0.1W
100	5020363	51.1 kQ1% 1/4W	R79	5020633	150 Ω 5% 0.35W

Control, 8002831, PCB 2	C1	4200333	1 μF -10+50% 63V	C9	4010027	1 nF 10% 63V
	C2	4130310	1 μF 10% 50V	C10	4200333	1 μF -10+50% 63V
	C3	4010027	1 nF 10% 63V	CII	4010041	10 nF -20+80% 40V
	C4.	4200016	22 μF -10+50% 25V	C12	4010041	10 nF -20+80% 40V
	C5	4000057	47 pF 5% 63V	C13	4010041	10 uF -20+80% 40V
	C6	4000057	47 pF 5% 63V	C16	4010061	2.2 nF 10% 63V
	C7	4130223	47 nF 10% 63V	C17	4010061	2.2 nF 10% 63V
	C8	4130223	47 pF 10% 63V			
			4			0.7.1
	\$1 \$2	7400350 7400350	Switch Switch	S3	7400350	Switch
Fuses, 6271040, PCB 3						
type 6601/02	Fl	6600009	Fuse 2A 250V			
Fuses, 6270343, PCB 3 type 6605	F2	6600070 7200052	Fuse 40MA 250V Fuse holder			
Fuses, 6270342, PCB	_					
	F1	6600019	Fuse 5A 250V			
type 6603/04	F2	6600069	Fuse 150MA 250V			
		7200052	Fuse holder			
Relay, 8002784, PCB 4						
	RL1	7600069	Relay			
		3917109	Damping material			
Signal level, 8002916, PCB 7	C1	4190911	680 nF 10% 63V	C3	4130310	1 µF 10% 50V
	C2	4130311 4130309	330 nF 10% 63V	Co	4100010	1 pr 1070 00 f
		4100000				
	P1	7220544	· Plug 5 pol.			
Display control, 8006025, PCB 11	_					
Dispiny College, 6000025, 1 CD 21	C1	4010061	2.2 nF 10% 63V	C13	4010155	220 pF 10% 63V
	C2	4010061	2.2 nF 10% 63V	C14	4010021	220 pF 10% 63V
	C3	4010061	2.2 aF 10% 63V	C15	4010155	220 pF 10% 63V
	C4	4010061	2.2 nF 10% 63V	C16	4130215	220 nF 20% 63V
	C5	4010061	2.2 aF 10% 63V	C17	4130215	220 pF 20% 63V
	C6	4010061	2.2 nF 10% 63V	C18	4200667	2200 µF -20+50% 16V
	C7	4010021	220 pF 10% 63V	C19	4200817	47 µF 20% 10V
	C8	4010155	220 pF 10% 63V	C20	4200431	10 µF 20% 16V
	C9	4010155	220 pF 10% 63V	C21	4000020	4.7 pF ± 0.25 pF 63V
	C10	4010155	220 pF 10% 63V	C22	4000167	18 pF 5% 63V
	C11	4010021	220 pF 10% 63V	C23	4010027	1 nF 10% 63V
	C12	4010155	220 pF 10% 63V			
	P6	7220508	Plug 19 pol.	P6	7220167	Plug 6 pol
	X 1	8090036	4 MHz			
Display drive, 8006024, PCB 12	_					
	P2 P3	7210571 7210572	Socket 2 pol. Socket 6 pol	P4 P5	7210284 7210573	Socket 9 pol. Socket 19 pol.
D. 1. 2004000 PCD 10	-	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Document or post			
Display, 8006023, PCB 13	P.O.	monant =	29	P4	7220507	D
	P2 P3	7220505 7220506	Plug II pol. Plug II pol.	14	7220507	Plug 9 pol.
Crossover network, 8006026,					-	
PCB 14	R1	5100059	10 Q 10% 9W	R3	\$100235	18 Ω 10% 3W
1 CD 14	R2	5100333	6.8 Q 10% 17W	R4	5104009	10 Ω 10% 3W
	C1	4200692	68 μF 10% 35V	C4	4130152	2.2 µF 10% 100V
	C2	4200709	220 µF 20% 35V	C5	4130385	3.9 µF 10% 100V
	C3	4200708	47 μF 10% 35V	C6	4130312	680 nF 10% 63V
	T 4	COLOTOS	10 -11	7.4	6950107	120 µH
	L1	6850193	1.8 mH	L4 L5	6850187 6850151	0.22 mH
	L2 L3	6850192 6850194	470 μH 12 mH	LJ	0000131	0.25 1111

Crossover network, 8006021, PCB 15

R1	5100326	22 Q 10% 9W	R3	5100242	6.8 Ω 5% 3W
R2	5100339	8.2 Ω 10% 7W	R4	5100242	6.8 Ω 5% 3W
C1	4200683	22 μ F 10% 35V	C5	4200687	10 μF 10% 35V
C2	4200682	8.2 µF 10% 35V	C6	4130312	680 nF 10% 63V
C3	4200691	■ μF 15% 35V	C7	4130312	680 nF 10% 63V
C4	4130384	3.3 µF 10% 100V	C8	4200683	22 μF 10% 35V
Li	6850189	€ 270 μH	L4	6850191	'1 mH
L2	6850190	1 mH	L5	6850166	47 pH
L3	6850168	150 µH			

2-11

Bang&Olufsen

MEKANISK STYKLISTE LIST OF MECHANICAL PARTS

9101	2560224		Decorative moulding, small
9102	3302407		Cabinet side and moulding, small
9103	2560219	Pynteliste, top	Decorative moulding, top
9104	3458407	Kabinettop	Cabinet top
9105	3450668	Stoframme, lille	Front panel, small
9106	8480197	Bashøjttaler	Woofer
9107	8480197	Bashøjttaler	Woofer
9108	2560224	Pynteliste, lille	Decorative moulding, small
9109	3452525	Kabinetliste, kort	Cabinet side, short
9110	3302407	Kabinetside og -liste, lille	Cabinet side and moulding, small
9111	3452524	Kabinetliste, lang	Cabinet moulding, long
9112	3444181	Gitter	Grill
9113	3440092	Baffel for melleutoue	Baffle for midrange
9114	3947202	Skumtape i metermål	Foam tape by the meter
9115	3320103	Dækglas for display, type 6611	Cover glass for display, type 6611
	3320099	Dækglas for display, type 660X	Cover glass for display , type 660X
9116	3131288	Hus for LED, type 660X	LED housing type 660X
9117	3320100		Frame
9118	2576050	Holder for PCB, type 660X	Holder for PCB, type 660X
9119		Skuffe for PCB	Tray for PCB
9120		Mellemtonehøittaler	Midrange speaker
9121		Mellemtonehøjttaler	Midrange speaker
9122		Beslag for mellemtonehøjttaler	
9123		Diskanthøjttaler	Tweeter
9124		Beslag for diskauthøjttaler	Fitting for tweeter
9125		Bashojttaler	Woofer
9126		Mellemtonehøjttaler	Midrange apeaker
9127		Mellemtonehøjttaler	Midrange speaker
9128		Stoframme, stor	Front panel, blg
9129	2630024	Beslag for mellemtonehøjttaler	Fitting for midrange
9130		Beslag-for-mellemtonehaittaler	
9131		Bashøjttaler	Woofer
9132		Pynteliste højre, stor	Decorative moulding right, big
9133		Kabinetside og -liste, stor	Cabinet side and moulding, big
9134		Ledningsbundt med DIN stik	Wire bundle
9134		Stikdåse 7 pol DIN	Socket 7 pole DIN
9135	7500234		Pin
9136		Kabinetside og -liste, stor	Cabinet side and moulding, big
9130		Pynteliste venstre, stor	Decarative moulding left, big
		Bund med tryk	Bottom with print
9138	3434410	Skumtape i metermål	Foam tape by the meter
9139 9140		Busning, sort	Bushing, black
9141		Besning, red	Bushing, red
9141		Glas sokkel	Glass socket
		Pakning	Gasket
9143			Foot
9144	3103224		Rubber foot
9145		Gummifod	
9146	2732084		O-ring
9147		Pakning for mellemtone	Gasket for midrange
9148		Pakning for mellemtone	Gasket for midrange Gasket for midrange
9149		Pakning for mellemtone	
9150	3340070	Pakning for mellemtone	Gasket for midrange
			AFFE

11 Modul 8006025 PCB Display control, type 660X PCB Display control, type 660X

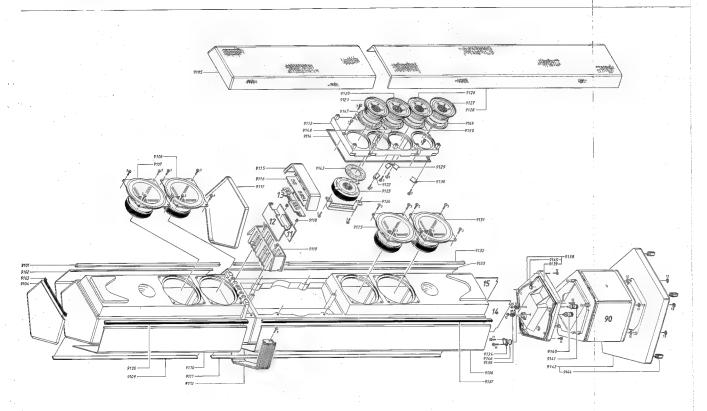
12 Modul 8006024 PCB Display drive, type 660X PCB Display drive, type 660X

13 Modul 8006023 PCB Display, type 660X PCB Display, type 660X

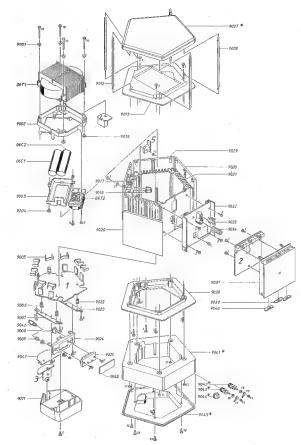
14 Modul 8006026 PCB Delefilter PCB Crossover network

15 Modul 8006021 PCB Delefilter

PCB Crossover network



9001	2938154	Basning	Bushing
	3152455		Holder for electrolytes
			Cover for electrolytes
6664			T 11
9005	2819157	Bøjle	Busings Clamp Holder for PCB 1 Bracket for PCB 1 Foam tape by the meter, for bracket Socket 4 pole
9006	3152063	Holder f. PCB 1	Holder for PCB 1
9007	2542669	Vinkel f. PCB 1	Bracket for PCB 1
	3947202	Skumtape i metermål, til vinkel	Foam tape by the meter, for bracket
9008	7210521	Stikdåse 4 pol.	Socket 4 pole
			LIDBO SOCIET
9011	3164627	Dæksel f. stikbrønd Gevindstykke	Cover for socket Threaded piece
9012	21/00007	Sammenspændingsstykke	Assembling piece
0015	0000154	Dlaw	Bushing
9017	3164643	nashing Dækplade m. tryk, type 6601 Dækplade m. tryk, type 6602 Dækplade m. tryk, type 6603 Dækplade m. tryk, type 6604 Dækplade m. tryk, type 6605	Cover plate with print, type 6601
9011	3164642	Dæknlade m tryk tyne 6602	Cover plate with print, type 6602
	3164640	Dæknlade m. tryk tyne 6603	Cover plate with print, type 6603
	3164641	Dækplade m. tryk, type 6604	Cover plate with print, type 6604
	3164639	Dækplade m. tryk, type 6605	Cover plate with print, type 6605
9018	3152507	Ledningsholder Dækplade	Wire holder
9020	3164602	Dækplade	Cover plate
		Holder f. PCB 1	Holder for PCB 1
9023	2542669	Vinkel f. PCB 1	Bracket for PCB 1
	3947202	Skumtape i metermål, til vinkel	Foam tape by the meter, for bracket
9024	2542668	Vinkel f. stik Dobbelt stikterminal	Bracket for socket
9025	7210509	Dobbelt stikterminal	Double socket terminal
9028	2076007	Gevindstykke Dækplade	Threaded piece
9029	3164603	Dækplade	Cover plate
9030	3164602	Dekplade	Cover plate
9031	2568847		Heat sink
0000	0004000	T 4 - 4 14 -	Rear cover, control
9034	3034000	Tundella dan	Lock for lid
9037	9160607	Las I. lag Trykfjeder Betjeningspanel Sammenspændingsstykke Knap omskifter Knap omskifter Kortslutningse ilk	Central name!
9038	3169968	Sammananandinmetukka	Assembling piece
9039	2778037	Knan omskifter	Switch button
9040	2778037	Knan omskifter	Switch button
			Short-circuit plug
9047	3302426	Isolationsstykke	Insulation piece
	3947202	Skumtape i metermål,	Foam tape by the meter for
			insulation piece
9048	6141199	PCB for stikterminal	PCB for socket terminal
01 Modul	8002915	PCB foretærker	PCB amplifier
		-	· · · · · · · · · · · · · · · · · · ·
02 Modul	8002831	PCB betjening	PCB control
00 35-4-1	6021040	DCD allulares and dates	PCP 4
os Modul	6271040	PCB sikringer, netledning type 6601/02	PCB fuses, mains lead type 6601/02
	2070210		
	02/0342		PCB fuses, mains lead type 6603/04
	6270242		PCB fuses, mains lead
	0210343	type 6605	type 6605
	7200052	Sikringsholdere	Puse holders
			·
04 Modul	8002784	PCB relæ	PCB relay
	3917109	Dæmpemateriale	Damping material
05 Modul	8002832	PCB netdel	PCB power supply unit
06T1	9012250	Transformator,	Transformer, type 6601/02/05
0011	0010009	type 6601/02/05	Transformer, type 0001/02/05
	8013375	Transformator, type 6603	Transformer, type 6603
	8013376	Transformator, type 6604	Transformer, type 6604
06T2	8013370	Transformator,	Transformer, type 6601/02/03/05
		type 6601/02/03/05	
	8013377	Transformator, type 6604	Transformer, type 6604
06C1	4200653	10000 µF 20% 80V	10000 µF 20% 80V
06C2		10000 µF 20% 80V	10000 pF 20% 80V
	3917109	Dæmpemateriale	Damping material



*Kun i Beolab 150, type 172x

*Only in Beolab 150, type 172x

Ikke viste dele Parts not shown

6270167 Ledning 4 m, type 6611 Cable 4 m, type 5611 3341059 Blandprop f. DIN stik, type 6611 Sealing plug for DIN socket, type 6611 6270336 4 m skærmet HT ledning 4 m shielded loudspeaker cable 4 pol stik, 660X 4 pole pin, type 660X 6270352 10 m skærmet HT ledning 10 m shielded loudspeaker cable 4 pol stik, 660X 4 pole pin, type 660X 3040026 Topnsgle, type 660X Socket spanner 3922025 Dæmpemateriale, lille klods Damping material, small block 3922024 Dæmpemateriale, stor klods Damping material, big block 3946038 Folie i meter Fail by the meter 3397604 Skumemballage f. glassokkel Foam packing for glass socket 3397555 Skumemballage mellenistykker Foam packing for spacers 3397554 Skumemballage endestykker Foam packing for end pieces 3391838 Yderæske, type 660X Outer carton, type 560X 3397601 Skumemballage III bund, type 660X Foam packing for bottom, type 660X 3391974 Yderæske, type 6611 Outer carton, type 6611 3391975 Indlæg, type 6611 Insert, type 6611 3170169 Glimmerskive Mica washer 6275627 Ledningsbundt m. DIN stik Wire bundle with DIN Plug

Oversigt skruer, skiver m.m. Survey of screws, washers etc.

2

6

8

9

2013208 Skrue M 2.9 x 9.5 Screw M 2.9 x 9.5 2039027 Skrue AM 3 x 6 Screw AM 3 x 6 Screw M 3.5 x 16 2015088 Skrue M 3,5 x 16 2015116 Skrue 3.5 x 25 Screw 3.5 x 25 2015201 Skrue M 3,5 x 9,5 Screw M 3.5 x 9.5 2039026 Skrue AM 3 x 4 Screw AM 3 x 4 2039028 Skrue AM 3 x 8 Screw AM 3 x 8 2015008 Skrue U 3.5 x 13 Screw U 3.5 x 13 2039014 Skrue AM 3 x 20 Screw AM 3 v 20 ..10. 2015115 Skrue-M-3,5-x-50---Screw-M-8:5-x-50 2013107 Skrue ■ 2,9 x 9,5 Screw M 2.9 x 9.5 2043016 Skrue AM 4 x 10 Screw AM 4 x 10 2013017 Skrue ■ 2,9 x 13 13 Screw M 2.9 x 13 2380011 Metrik M3 14 Nut M3 15 2380016 Metrik M4 Nut M4 17 2624013 Skive Washer 18 2625003 Stjerneskive Tooth lock washer 7530111 Loddeflig Solder tag

2-15

Bang&Olufsen

JUSTERINGER

Tomgangsstrøm

Tomgangsstrøm justeres medens forstærkeren er kold og uden signal tilført.

Høittaler må ikke være tilsluttet.

DC millivoltmeter tilsluttes over 1R103/1R104.

1R95 justeres til 30 mV.

Offset

DC voltmeter tilsluttes højttalerudgangen.

1R59 justeres til 0 V.

ADJUSTMENTS

No-load current

Adjust the no-load current while the amplifier is cold and without any supply of signal.

The loudspeakers must not be connected to the amplifier.

Connect the DC millivoltmeter over 1R103/1R104.

Adjust 1R95 to 30 mV.

Offset

Connect the CD voltmeter to the loudspeaker output.

Adjust 1R59 to 0 V.

TECHNICAL SPECIFICATIONS

Loudspeaker

Type no.	6601/6602/6604/6605
RMS power handling capacity	150 watts
Music power handling capacity	200 watts
Frequency range +4 -8 dB	40-20,000 Hz
Power at 96 dB SPL	2.5 waits
Sensitivity 1 W	92 dB
Distortion 250-1000 Hz	<0.5%
Distortion > 1000 Hz	<0.5%
Cabinet principle	Bass reflex
Woofer	4 units 13 om (5")
Midrange .	4 units 8 cm (3")
Tweeter	2.5 cm (1")
Crossover frequency	700/5000 Hz 18 dB/octave
Net volume	32 litres

Power amplifier

Power output 20-20,000 Hz IHF	1 x 150 watts/8 ohms		
LINE input	80 mV/1 W, 1 V/150 W, 22 kohms,		
	phono plugs		
Power input	800 mV/1 W, 10 V/150 W, 15 kohms		
	4-pin DfN or spring loaded contacts		
Bass level switch	Linear, +3 dB/40 Hz, +6 dB/40 Hz		
Sensitivity switch	0 dB, -3 dB, -6 dB		
Power supply	6601: 220 V		
	6602/6605: 240 V		
	6603: 120 V		
	6604: 100 V		
Power frequency	50-60 Hz		
Power consumption	Max. 300 watts		
Stand-by	2 watts		
Dimensions WxHxD	5-13.5 x 165 cm incl. stand		
Weight	24 kg		

Subject to change without notice

Type no.	6611
RMS power handling capacity	150 watts
Music power handling capacity	200 watts
Impedance	8 ohms
Frequency range +4 -8 dB	40-20,000 Hz
Power at 96 dB SPL	2.5 watts
Sensitivity 1 W	92 dB
Distortion 250-1000 Hz	< 0.5%
Distortion >1000 Hz	< 0.5%
Cabinet principle	Bass reflex
Woofer	4 units 13 cm (5")
Midrange	4 units 8 cm (3")
Tweeter	2.5 cm (1")
Crossover frequency	700/5000 Hz 18 dB/octave
Net volume	32 litres
Dimensions WxHxD	5-13.5 cm x 150 cm Incl. stand
Weight	17 kg

Subject to change without notice

Sensitivity switch	Input for 150W_output	Amplifier for 4-chms output	Amplifier for 8-ohms-output
MAX.	10 V	- 25 W	- 12 W
MED.	14.1 V	25 W - 50 W	12W - 25W
MUN.	20 V	50 W - 100 W	25W - 50W

ADSKILLELSE

DISMANTLING

Display

Display



Dækslet afmonteres ved at rykke i pilens retning.

Dismantle the cover by pulling it in the direction indicated by the arrow.



Displayenheden er nu tilgængelig, og kan løftes ud i serviceposition.

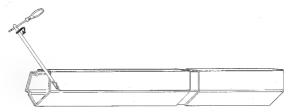
The display unit is now accessible and free to be lifted up in service position.

SERVICETIPS

SERVICE TIPS

Udskiftning af aluminiumsfolie

Replacement of aluminium foil



Aluminiumsfolien løsnes forsigtig i et hjørne.

Loosen the aluminium foil carefully in one corner.

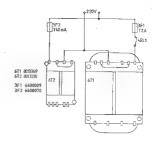
Hiælpeværktøj bestillingsnr. 3629116 benyttes som vist. Use the auxiliary tool, part no 3629116 as shown on på tegningen.

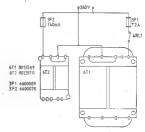
the drawing.

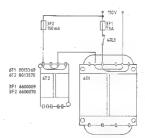
Ledningsmontering på nettransformatorer

Wiring of Mains Transformers

Type 6601 Type 6602 Type 6605



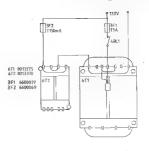


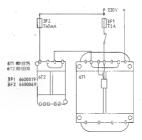


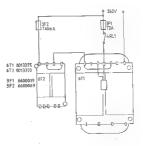
2-19

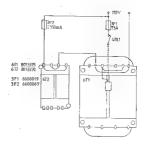
Туре 6603

Bang&Olufsen

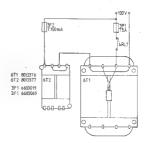








Type 6604



ISOLATIONSTEST

Ethvert apparat skal isolationstestes efter at det har været adskilt. Testen udføres når apparatet igen er helt samlet og klar til udlevering til kunden.

Isolationstesten udføres på følgende måde: De to stikben på netstikket kortsluttes og tilsluttes en af terminalerne på isolationstesteren. Den anden terminal fra Isolationstesteren tilsluttes den sorte klembøsning i AMP LEVEL INPUT.

OBSI

For at undgå beskadigelser på apparatet er det vigtigt, at begge terminaler fra isolationstesteren har virkelig god mekanisk kontakt.

Der drejes nu langsomt med spændingsreguleringen på isolationstesteren indtil en spænding på 1,5 - 2 kV er opnået. Her skal den holdes i 1 sekund, derefter drejes der langsomt ned for spændingen igen.

Der må ikke på noget tidspunkt under testen forekomme overslag.

INSULATION TEST

Earch set must be insulation tested after dismantling. The test is to be performed when the set has been reassembled and is ready for delivery to the customer.

Make the insulation test as follows:

Short-circuit the two plug pins of the mains plug and connect one of the terminals of the insulation tester. Connect the other terminal of the insulation tester to the black spring loaded contact marked AMP LEVEL INPUT.

N.B.!

To avoid ruining the set, it is essential that both insulator test terminals are in really good mechanical contact.

Now turn slowly the voltage control of the insulation tester until a voltage of 1.5 - 2 kV is obtained. Hold it there for 1 second, then turn slowly the voltage down again.

At no point during the testing procedure any flashovers are permissible. Samleinstruktion for Beovox Penta type 6611 med Beolab 150 type 172x

Instructions for assembly of Beovox Penta type 6611 and Beolab 150 type 172x

På Beovox Penta afmonteres glasfoden pos. nr. 9142, ved at skrue de 5 skruer A ud. iflg. fig. 1.

Remove the glass base of the Beovox Penta, pos. no. 9142, by removing the 5 screws A, according to Fig. 1.



På Beolab 150 skrues bunden pos. nr. 9045 af, ved at fjerne de 5 skruer B, filg. fig. 2. Mellemstykket pos. nr. 9041 frigøres, ved at afmontere de 5 møtrikker C, hvorefter ledningen der forbinder mellemstykket med forstærkerenheden, klippes af 2 cm over forstærkerenheden, filg. fig. 2. Den afklippede ledning isoleres og placeres ved siden af stikbronden på forstærkerenheden.

Remove the base of the Beolab 150, pos. no. 9045, by removing the 5 screws B, acording to Fig. 2. Lift off the intermediate piece, pos. no. 9041, by removing the 5 mits C, and then cut off the wire connecting the intermediate piece to the amplifier unit 2 cm above the amplifier unit, according to Fig. 2. Insulate the cut wire, and position it next to the recess with the sockets on the amplifier unit.

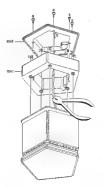


FIG. 2

3-2

Forstærkerenheden vendes og låget pos. nr. 9027 løftes af iflg. fig. 3.

Turn the amplifier unit, and lift off the lid, pos. no. 9027, according to Fig. 3.

Bang & Olufsen

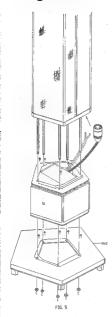


De 5 stavbolte D afmonteres låget og monteres i bunden op Beovox Penta istedet, ifig. fig. 4.

Remove the 5 bolts D from the lid and mount them in the base of the Beovox Penta instead, according to Fig. 4.



FIG. 4





riu, e

På disse stavbolte placeres den ændrede Beolab 150 således, at forsiden af Beolab 150 og Beovox Peuta vender samme vej, iflg. fig. 5.

Isoleringen på HT-ledningen fra Beolab 150 fjernes, og ledningerne monteres på Beovox Penta med den mærkede ledning til -, iflg. fig. 6.

Proppen over DIN-bosnsingen i Beovox Penta fjernes, og DIN-stikket fra Beolab 150 monteres.

De 2 enheder kan nu skrues sammen, ved at montere glasfoden nedenunder den ændrede Beolab 150, og derefter montere de 5 møtrikker C, iflg. fig. 5. Position the modified Beolab 150 on these rod bolts so that the front of the Beolab 150 and of the Beovox Penta face the same way, according to Fig. 5.

Remove the insulation on the speaker wire from the Beolab 150, and connect the wires to the Beovox Penta. Connect the marked wire to , according to Fig. 6.

Remove the cap on the DIN socket in the Beovox Penta and mount the DIN plug from the Beolab 150 in that socket.

The two units by placing the glass base underneath the modified Beolab 150 and then screwing on the 5 nuts C, according to Fig. 5.

ISOLATIONSTEST

Ethvert apparat skal isolationstestes efter at det har været adskilt. Testen udføres når apparatet igen er helt samlet og klar til udlevering til kunden.

Isolationstesten udføres på følgende måde: De to stikben på netstikket kortsluttes og tilsluttes en af terminalerne på isolationstesteren. Den anden terminal fra isolationstesteren tilsluttes den sorte klembøsning i AMP LEVEL INPUT.

OBS!

For at undgå beskadigelser på apparatet er det vigtigt, at begge terminaler fra isolationstesteren har virkelig god mekanisk kontakt.

Der drejes nu langsomt med spændingsreguleringen på isolationstesteren indtil en spænding på 1,5 - 2 kV er opnået. Her skal den holdes i 1 sekund, derefter drejes der langsomt ned for spændingen igen.

Der må ikke på noget tidspunkt under testen forekomme overslag.

INSULATION TEST

Earch set must be insulation tested after dismantling. The test is to be performed when the set has been reassembled and is ready for delivery to the customer.

Make the insulation test as follows:

Short-circuit the two plug pins of the mains plug and connect one of the terminals of the insulation tester. Connect the other terminal of the insulation tester to the black spring loaded contact marked AMP LEVEL INPUT.

N.B.!

To avoid raining the set, it is essential that both insulator test terminals are in really good mechanical contact.

Now turn slowly the voltage control of the insulation tester until a voltage of 1.5 - $2~\rm kV$ is obtained. Hold it there for $1~\rm second$, then turn slowly the voltage down again.

At no point during the testing procedure any flashovers are permissible.

To paste en page of in supplement Beolab Penta type 662X (3538730) for Beolab 200

9017	3164745	Cover plate w/print
9027	3458492	Lid
9041	3454443	Intermediate piece
9042	7210595	Terminal Screw, red
	7210596	Terminal Screw, black
9043	7210595	Terminal Screw, red
0010	7210596	Terminal Screw, black
9044	7211047	Socket
0015	0454444	Pers

Survey of screws

15	2380016	Nut M4
18	2625003	Washer
19	7530091	Soldering lug

Beolab Penta

Type 6631, 6632, 6633, 6634, 6635



INDKLÆBES I SERVICEANVISNING BEOVO

107

8-1

Bang & Olufsen

Ledningsmontering på nettransformatorer

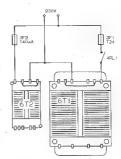
Wiring of Mains Transformers

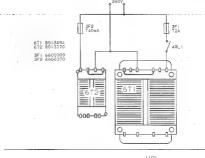
Type 6631

Type 6632

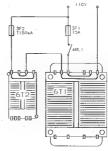
Type 6635

6T1 8013494 6T2 8013370 3F1 6600009 3F2 6600070

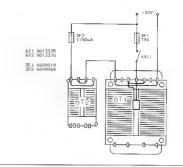


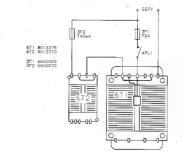


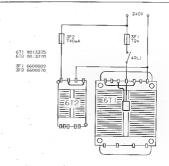




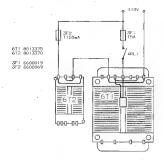
Type 6633



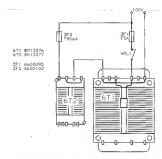




Type 6633



Type 6634



PCB 23, Microcomputer

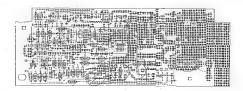


DIAGRAM A, Display 663X # SMD COMPONENT * SPECIALLY ADAPTED SAMPLE

8-5

PCB23, 8001443 Microprocessor

Bang & Olufsen

LIST OF ELECTRICAL PARTS

51	124	143	156	209	250		
Ė.	40 21 20		1	<u>*</u>	Î	-	

- Resistors not referred to are standard, see page 3.4 Δ Indicates that static electricity may destroy the component * Specially selected or adapted sample

IC2∇s	8341612 8341771	156 TL 7705 124 μP 80C52	IC3	8341770	143 LM 2575
TR1 TR2	8320615 8320616	051 BC 848B 051 BC 858B	TR3- TR4	8320615	05i BC 848B
D1 D2 D3	8300482	250 Z 6.8V 5% 250 LL 4148 250 Z 3.9V 2%	D4 D5 D6	8300557 8300466 8300795	125V 1.5A
R2*	5012142	60 mΩ			
C1 C2 C4 C6- C7 C8- C9 C10- C12	4010166 4200512 4010166 4010170 4000278 4000241	1µF 20% 50V 100nF -20+80% 50V 2.2nF 10% 50V	C14- C15 C16- C18 C19 C20* C21		330µF 20% 25V
L1 L2	8020914 8020912	Coil 470µH Coil 100µH	L4	8020817	Coil 33µH
X1	8090075	Crystal 12MHz			
F1	6600080	Fuse 400mAT			
P101	7220714	Plug 7 pole	P102	7220318	Plug 6 pole

All other electrical parts are identical with chapter 3 for 662x (3538730)

LIST OF MECHANICAL PARTS

Ex.	view,	see	page	4-2
-----	-------	-----	------	-----

9151		Masking f. display	
23Modul	8001443	PCB23, Microcomputer	
25Modul	8001485	PCB25, Display (3x4 character)	
	2576275	Holder	
	8330222	PCB25, Display (2x6 character)	
-			_

3320103 Cover glass f. display

Ex. view, see page 4-3

9017	3164800	Coverplate w. print, type 6631
	3164865	Coverplate w. print, type 6632
	3164890	Coverplate w. print, type 6633
	3164891	Coverplate w. print, type 6634
	3164892	Coverplate w. print, type 6635
06T1	8013494	Transformer, type 6631 (230 EU)
	8013494	Transformer, type 6632, 6635 (240 GB/AUS)
	8013375	Transformer, type 6633 (120 USA)
	8013376	Transformer, type 6634 (110 JAP)

Owners Manuals

3506179	Danish
3506180	Swedish
3506181	Finnish
3506182	Euglish
3506183	German
3506184	Dutch
3506185	French
3506186	Italian
3506187	Spanish

All other mechanical parts are identical with chapter 4 for 662x (3538730)



TECHNICAL SPECIFICATIONS	BEOLAB PENTA
уре	6621, 6622, 6623, 6624, 6625
Speaker:	
ong-term maximum power IEC	320 watts
Maximum noise power IEC	150 watts
mpedance	8 ohms
requency range +4/-8 dB	40-20,000 Hz
Power at 96 dB SPL (1 m)	2.5 watts
	92 dB
Sensitivity 1 W (1 m) Distortion 0.250 - 6 kHz	<0.5 %
	Bass Reflex
Cabinet principle	4 units 13 cm (5")
Vooler	The state of the s
Mid-range	4 units 8 cm (3")
Weeter	2.5 cm (1")
Crossover frequency	700/5000 Hz
Net cabinet volume	32 litres
Power amplifier:	
ong-term maximum power IEC	300 watts
RMS DIN	175 watts
HF	
Total harmonic distortion IHF	<0.015 %
ntermodulation IHF	<0.02 %
Dynamic headroom	>1.5 dB
nput sensitivity/impedance:	, , , , , , , , , , , , , , , , , , , ,
POWER LINK sockets	1 V/>25 kohms
channel separation	>70 dB .,
SPEAKER LINK socket	11 V/>15 kohms
LINE IN socket	1 V/>25 kohms
BASS EXTENSION switch	0 dB, +3 dB, + 6 dB
NPUT LEVEL switch	0 dB, -3 dB, -6 dB
Dynamic Clipping Attenuator	Automatic
Power consumption	Max. 300 watts
Stand-by	2 watts
Dimensions W x H x D	22 x 165 x 20.5 cm
Dimensions, Stand	35.5 x 4 x 34 cm
Weight	24 kg
Subject to change without notice	

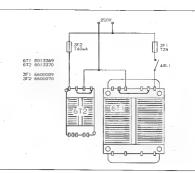
Ledningsmontering på nettransformatorer

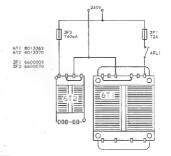
Wiring of Mains Transformers

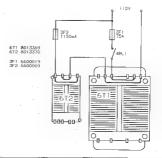
Type 6621

Type 6622

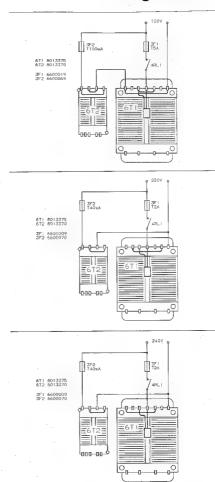
Type 6625

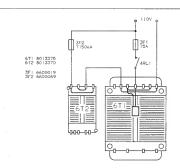




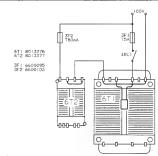


Туре 6623





Type 6624



DIAGRAMFORKLARING

2-1

På diagrammerne er der angivet typenumre på transistorer og IC'er. Hvis positionsnummeret er efterfulgt af en stjerne, skal reservedelsnummeret altid benyttes, da denne komponent er specielt udvalgt, f.eks. TR102*.

Komponenttryk og koordinatsystem

De største printplader er forsynet med komponenttryk og et koordinatsystem på både print- og komponentside.

På diagrammerne er enhver komponent forsynet med et koordinatnummer. Dette fortæller i hvilket koordinat på printpladen, komponenten er placeret. Koordinatnumrene er angivet med mindre skrifttype end positionsnumrene.

Styrekredsløb

I visse styrekredsløb er den aktive tilstand angivet med en funktions- eller bogstavsangivelse. Denne kan eksempelvis være STBY = »low« i stand-bystilling eller STBY. — »high« i stand-by-stilling.

Ledningsforbindelser

Ledningsforbindelserne på diagrammerne er samlet i »bundter«. De enkelte ledninger er forsynet med en af følgende koder:

INTERN FORBINDELSE PÅ EN DIAGRAMSIDE

] 20 12

Interne forbindelser på en diagramside angives med

et tal. Knækket på ledningen viser, i hvilken retning, den anden ende af ledningen findes.

FORBINDELSE TIL EN ANDEN DIAGRAMSIDE

DIAGRAM A

C3 C32

Forbindelsen til en anden diagramside angives med et tal samt et bogstav for det diagram, forbindelsen går til.

Forsyningsspændinger

Alle forsyningsspændinger i diagrammerne er angivet med en pil og en spændingsangivelse.

Eksempel:

Ved siden af spændingsangivelsen står der f.eks. 7 CON. Dette betyder, at den pågældende forsyningsspænding går til 7 steder på den pågældende diagramside (7 CON. = 7 connections).

EXPLANATION OF DIAGRAM

Type numbers of transistors and ICs are indicated on the diagrams.

If the position number is followed by an asterisk the spare part number must always be used because the component in question has been specially selected, e.g. TR102*

Component print and coordinate system

The largest PCBs have component prints and a coordinate system on both the print and the component side.

On the diagrams every component has a coordinate number. This indicates in which coordinate on the PCB the component is situated. The coordinate numbers are written in smaller print types than the position numbers.

Control Circuit

In certain control circuits the active mode is indicated by a function term or by an abbreviation. This may be e.g. STBY. = low in the stand-by mode or STBY. = high in the stand-by mode.

Wiring Connections

The wiring connections on the diagrams are assembled in 'bundles'. The individual wires are provided with one of the following codes:

INTERNAL CONNECTION ON ONE DIAGRAM PAGE

Internal connections on a diagram page are indicated by a number. The bend of the wire indicates in which direction the other end of the wire is found.

CONNECTION TO ANOTHER DIAGRAM PAGE

DIAGRAM C

A32 A3

A connection to another diagram page is indicated by a number as well as by a letter of the diagram to which the connection leads.

Supply Voltages

All supply voltages in the diagrams are indicated by an arrow and a voltage indication.

Example:

"7 CON." This means that the supply voltage in question goes to 7 different places on the diagram page in question (7 CON = 7 connections).

SYMBOL FOR SIKKERHEDSKOMPONENTER

SYMBOL OF SAFETY COMPONENTS



Ved udskiftning af komponenter med dette symbol skal der anvendes komponenter med samme reservedelsnummer. Den nye komponent skal monteres på samme måde som den udskiftede.

MÅLEBETINGELSER

Alle DC-spændinger er målt i forhold til stel med et voltmeter med en indgangsmodstand på 10 Mohm.

DC-spændingerne er opgivet i volt (V), f.eks. 0,7 V.



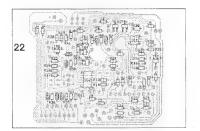
When replacing components with this symbol, components with identical part numbers must be used. The new component must be mounted in the same way as the one replaced.

MEASURING CONDITIONS

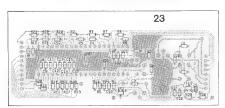
All DC voltages have been measured in relation to ground with a voltmeter with an input resistance of 10 Mohms.

The DC voltages are stated in volts (V), e.g. 0.7 V.

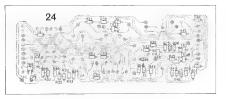
PCB 22, Input Control



PCB 23, Microcomputer



PCB 24, Display Drive



Crossover Network

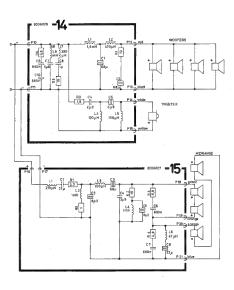
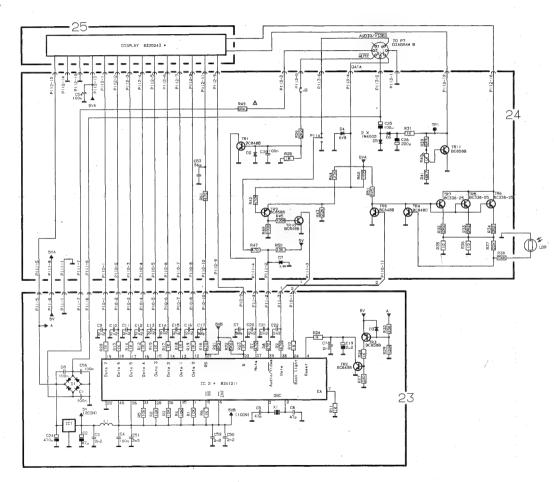


DIAGRAM A, Display



(X CON.) . NUMBER OF VOLTAGE CONNECTIONS

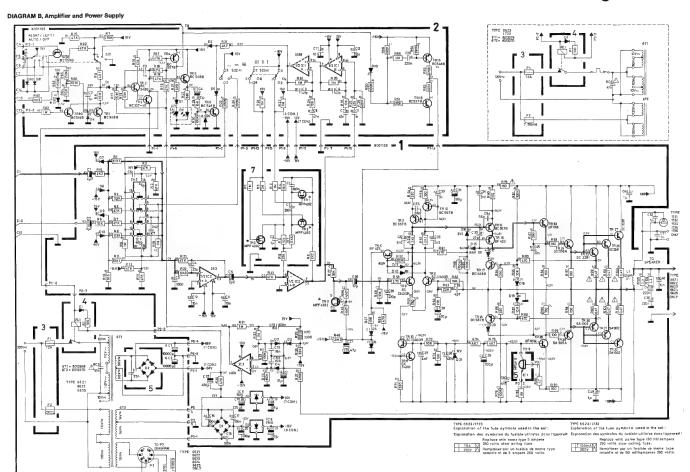
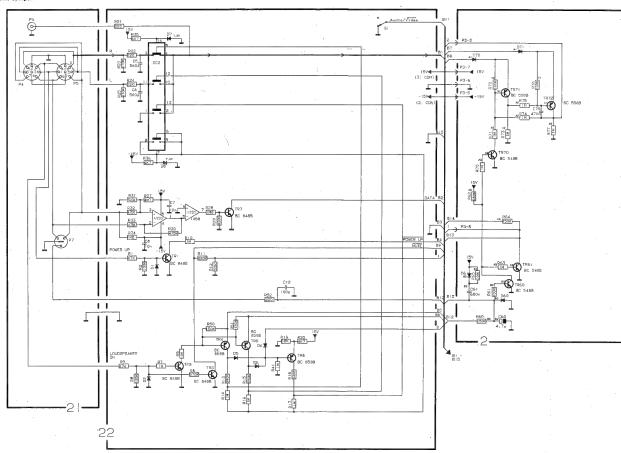


DIAGRAM C, Input



3-1

LIST OF ELECTRICAL PARTS

1	17	19	20	24	33	34	44	51
	0 0 E	:	E B	6 5 0	111	(O)		
	103	105	123	136	138	209	214	250
		100	I N OUT					

PCB 1, 8001159 Amplifier

IC1Δ IC2 IC3	8340202 8340763 8340048	136 136 103	MC 4066 BCP LF353-TL072 MC 1458 N	IC5 IC6	8340064 8340240		MC 7815 MC 7915 CT
TR3*∆	8320396	24	MPF 4392	TR17	8320509	20	BC 548B
TR6	8320623	17	BF 423	TR18	8320503	20	BC 557B
TR7	8320503	20	BC 557B	TR23	8320646	44	BF 858
TR8-10	8320641	17	SC 2240 GR	TR24	8320643	33	SC 2238A
TR11	8320509	20	BC 548B	TR25-27	8320645	34	SC 3281
TR12	8320503	20	BC 557B	TR28	8320646	44	BF 858
TR15	8320503	20	BC 557B	TR29	8320642	33	SA 968A
TR16	8320623	17	BF 423	TR30-32	8320644	34	SA 1302
D1.	8300466		B125 C1500	D16	8300541	209	ZPD 3.3V
D2-12	8300058	209		D17-20	8300058	209	1N 4148
D15	8300409	214	BAV 20-25	D21	8300407	209	ZPD 12V
R1	5020363	51.1	kΩ 1% 1/4W	R62	5020110	10 k	Ω 1% 1/4W
R4	5020126		kΩ 1% 1/4W	R64	5020954		2 1% 1/4W
R8	5020126		kΩ 1% 1/4W	R73	5020127	10 k	Ω 5% 1W
R11	5020363	51.1	kΩ 1% 1/4W	R79	5020633	150 (Q 5% 0.35₩
R35	5220036	330	kΩ 10% 1/2W	R95	5370341		Ω 20% 0.1W
R56-57	5020200	2.1 k	Ω 1% 1/4W	R99-	5100203	0.47	Q 10% 2W
R59	5370351	220	Ω 20% 0.1W	R104			
C1-2	4200515	4.7 u	F 20% 25V	C30	4010105	1 nF	10% 63V
C3	4100232		pF 5% 63V	C31	4200652		μF 20% 100V
C4	4000136		F 5% 63V	C32-34	4010103	2.2 n	F 10% 63V
C5	4200517	2.2 µ	F 20% 50V	C35	4003059		F 5% 500V
C6-7	4010103	2.2 g	F 10% 63V	C36	4000145		F 0.25 pF 63V
C10-11	4010106	10 n	F-20+80% 40V	C37	4010101		F 10% 63V
C13	4130230		nF 20% 63V	C38	4010128		F 10% 63V
C14	4200510		F 20% 16V	C39	4200511		μF 20% 10V
C15-17	4130230	100	nF 20% 63V	C40	4010101		F 10% 63V
C18	4200311		μF-10+100% 40V	C45	4130195		F 5% 250V
C19	4200509		F 20% 25V	C46	4130155		10% 100V
C20	4200368		µF-10+100% 63V	C47	4130308		nF 10% 63V
C21	4200509		F 20% 25V	C48	4012002		F-20+50% 400
C22	4200704		F 20% 25V	C49	4130155		10% 100V
C25	4200510		F 20% 16V	C50	4130308		nF 10% 63V
C26	4100234		pF 5% 63V	C51-52			F 10% 63V F 5% 63V
C27 C29	4200523 4200665		μF 20% 50V μF 20% 6.3V	C53-54	4000362	эо р	r 070 D3 V
	6850114	Coil	0.5 μH				
P1	7220143	Pluo	14/14 pole				
P2	7220203		10/9 pole				
P3	7220313		3 pole				
P5	7220634		4/3 pole				

 $[\]Delta$ indicates that static electricity may destroy the component.

DO	n .	 004	405	-	
			165		

PCB 2, 8001165 Control	IC1	8340048	103 MC 1458 CP1
	TR1-2 TR3 TR4 TR5-6 TR15 TR16	8320509 8320595 8320503 8320509 8320509 8320503	20 BC 548B TR60-61 8320509 20 BC 548B 20 BC 337-40 TR70 8320509 20 BC 548B 20 BC 557B TR71-72 8320510 20 BC 558B 20 BC 548B TR80 8320509 20 BC 548B 20 BC 548B TR90 8320510 20 BC 558B 20 BC 557B TR90 8320510 20 BC 558B
	D1 D2 D3-7 D10	8300058 8330153 8300058 8300058	TLSV 5100 D70-71 8300058 209 1N 4148
	R65	5020875	10 MΩ 5% 1/8W
	C2 C3 C4 C5-6 C7-8 C9	4130399 4010105 4200016 4000137 4130240 4010105	47 pF 5% 63V C61 4130311 680 nF 10% 63V
	S21 S22-23	7400378 7400379	Switch Switch
	Р3	7220221	Piug 8/8 pole
PCB 3, 8002905 PCB without fuses and mains lead Type 6621-6622-6625 (EU-GB-AUS)	F1 F2	6600009 6600070 6271102 6270297	Fuse 2 AT Fuse 4 0 mAT Mains lead (EU-GB) Mains lead (AUS)
Type 6623 (US-CDN)	F1 F2		Fuse 5 AT Fuse 150 mAT
		6270251	Mains lead
Type 6624 (JAP)	F1 F2	6600095 6600103	Fuse % AT Fuse 80 mAT
		6271016	Mains lead
PCB 4, 8001166 Relay	D1	8300058	209 1N 4148
	RL1	7600069 3917109	Relay Damping material
PCB 5, 8001167 Bridge	IC1	8340505	19 MPS A13
	D2	8300497	KBU 6D
	C1	4130079	22 nF 20% 250V

^{*} Specially selected or adapted sample.

^{*} Specially selected or adapted sample.

* Specially selected or adapted sample

PCB 6, Power Supply	C1-2	1200653	10000 µF 20% 80∇	C3	4130394	17 nF 20% 250V
Type 6621-6622-6625	Ti	8013369 '	Transformer	T2	8013370	Transformer
Турс 6623	C1-2	4200653	10000 μF 20% 80V	C3	4130397	47 nF 20% 125V
	T1	8013375	Transformer	T2	8013370	Transformer
Type 6624	C1-2	4200653	10000 µF 20% 80V			
	T1	8013376	Transformer	T2	8013377	Transformer
PCB 7,8001168	TR1-3*∆	8320396	24 MPF 4392			
Signal Level	C1 C2	4130311 4130309	680 nF 10% 63V 330 nF 10% 63V	C3	4130070	1 µF 10% 50V
	P1	7220544	Plug 5 pole			
PCB 14, 8006028 Crossover Network/	R1 R3	5100059 5100235	10 Ω 10% 9W 1.8 Ω 10% 3W	R5 R6	5100200 5100242	15 Ω 10% 3W 6.8 Ω 5% 3W
Woofers-Tweeter	Cl	4200692	68 µF 10% 35V	C7	4200732	5.6 µP 10% 35V 1_uF_10%_100V
	C3 C4 C5	4200692 4130152 4130385	-68 μF 10% 35V- 2.2 μF 10% 100V 3.9 μF 10% 100V	C9-10	4130155 4130312	680 nF 10% 63V
	L1 L2 L4	6850193 6850192 6850196	Coil 1.8 mH Coil 470 µH Coil 120 µH	L5 L6 L7	6850142 6850200 6850198	Coil 0.15 mH Coil 1.8 mH Coil 390 µH
PCB 15, 8006027 Crossover Network/Midrange	R1 R2	5100340 5104009	3,3Q 10%9W 10 Q 10% 3W	R3-4 R5	5100242 5104020	6.8 Ω 5% 3W 1 Ω 10% 3W
	C1 C2 C3 C4	4200731 4200682 4200692 4130385	27 µF 10% 35V 8.2 µF 10% 35V 68 µF 10% 35V 3.9 µF 10% 100V	C5 C6-7 C8	4200682 4130312 4200683	8.2 µF 10% 35V 680 nF 10% 63V 22 µF 10% 35V
	L1 L2 L3	6850197 6850190 6850188	Coil 1 mH	L4 L5	6850199 6850166	
PCB 21, 8001169 Input Socket	P4-5 P6	7210518 7220746		₽7	7210521	Loudspeaker socket
PCB 22, 8001172 Input Contro	IC1	8340996	138 1458	[C2	8341024	138 4066
	TR1-3			TR7	832061	51 BC 848B
	D1 D3-6	830048 830048		D7-8	830063	5 250 ZPD 7.5V
	R30 R31	501173 501173		R32-3	3 501173	2 475 kΩ 1% 1/8W
	C5-6 C7-8	400032 401017		C12	400029	2 100 pF 5% 50V
△ indicats that static electricity may destroy the component.	S1	740038	0 Switch	_		, ,

ļ	20	51	105	136	209	224	250	15.30
	E B		IN 1 dot		^			

Resistors not referred to are standard, see page 3-4.

PCB 23, 8001173 Microcomputer

PCB 24, 8001174 Display Drive

IC1 IC2*Δ	8341163 8341211		78M05 80C50		٠		
TR2 TR3	8320615 8320616	51 51	BC 848B BC 858B				
110	0020010	31	DC 030D				
D1 D3	8300466 8300482	250	B125 C1500 LL 4148				
C1	4010166	100	ıF-20+80% 50V	C17	4000325	560 :	F 5% 50V
C2	4201087		-10+100% 40V	C1.8	4010170		F 10% 50V
C3	4010170		F 10% 50V	C19	4200517		F 20% 50V
C4	4010166		F-20+80% 50V	C20-22	4010170		F 10% 50V
C5-6	4000234	47 pF	5% 50V	C24	4200834	470 L	F-10+50% 25
C7	4000325		F 5% 50V	C50-52	4010170		F 10% 50V
Č8	4010166		aF -20+80% 50V	C56	4010166		F-20-80% 50
C9-16	4010170		F 10% 50V				
L1	8020552	Coll	10 µH				
X1	8090009	Crys	tal 6.000 MHz				
P10	7220862	Plug	11/11 pole				
P11	7220600	Plug	8/8 polc				
TR1	8320615	51	BC 848B	TR9	8320616	51	BC 858B
TR4	8320747	51	BC 848C	TR10	8320615	51	BC 848B
TR5-7	8320848		BC 338-25	TR11	8320616	51	BC 858B
TR8	8320615	51	BC 848B				
D2	8300482		LL 4148 ·	D5-6	8300023	209	1N 4002
D4	8300520	224	ZPD 6.8V	D7	8300577	250	ZPD 3.9V
R40	5370141		20% 0.1W				
R49	5020684	0.47	Ω 10% 0.4W				
LDR	5210006	3.3 k	Ω 33% - 21 LUX				
C25	4200462	100 :	JF -10+50% 25V	C53	4000240	56 pl	F 5% 50V
C26	4200835		F-20+50% 25V	C54	4010166		F-20+80% 50
C30	4010166	100	F-20+80% 50V				
P110	7210748	Sock	et 11/11 pole	P113	7220167	Plug	6/6 pole
PIII	7210290		et 8/8 pole	P114	7220212		3/3 pole
P112	7210723	Sock	et 16 pole		7210570	Strap)

PCB 25, 8330243 Display

Δ indicates that static electricity may destroy the component.

^{*} Specially selected or adapted sample.

Standard Resistors: Resistors 5% 1/2 W

Resistors 5% 1/4 W

Resistors 5% 1/8 W

Resistors SMD 2% 1/8 W SMD 5% 1/8 W

	x1	x10	x100	x1K	x10K	x100K	xIM	x10M
1.0 1.2 1.5	5011406 5010727	5011000 5011001 5011002	5011013 5011014 5011015	5011028 5011030 5011031	5011044 5011045 5011046	5010313 5011058 5011059	5011069 5010421 5011071	5011083
1.8 2.2 2.7	5010857 5011335	5010787 5010708 5010803	5011016 5010815 5011018	5011033 5011034 5010055	5011047 5011048 5011049	5011061 5011062	5011072 5011074 5011075	
3.3 3.9 4.7	5020803 5010765	5011007 5010782 5011009	5011019 5011021 5011022	5011037 5010700 5010035	5011051 5010036	5011063 5011065	5010381 5010392 5011078	
5.6 6.8 8.2	5010874	5011010 5011011 5011012	5011023 5011024 5011026	5011041 5011042 5011043	5010810 5010038	5011066 5011067 5011068	5011079 5011080 5011081	

	xi	x10	x100	x1K	x10K	x100K	x1M	x10M
1.0 1.2 1.5	5010592 5011348	5010506 5010595 5010468	5010065 5010128 5010057	5010040 5010153 5010247	5010059 5010046 5010053	5010049 5010047 5010063	5010054 5010665 5010093	5010638
1.8 2.2 2.7	5010682 5010925	5010822 5010448 5010403	5010362 5010092 5010000	5010066 5010064 5010298	5010135 5010079 5010141	5010072 5010120 5010083	5010791 5010245 5010431	
3.3 3.9 4.7	5011377 5010888	5010253 5030622 5010411	5010044 5010070 5010058	5010076 5010069 5010048	5010075 5010060 5010045	5010117 5010073 5010077	5010848 5010714 5011513	
5.6 6.8 8.2	5010706 5010904 5010880	5010151 5010039 5010056	5010067 5010144 5010068	5010041 5010052 5010154	5010061 5010062 5010091	5010071 5010074 5010505	5010658	

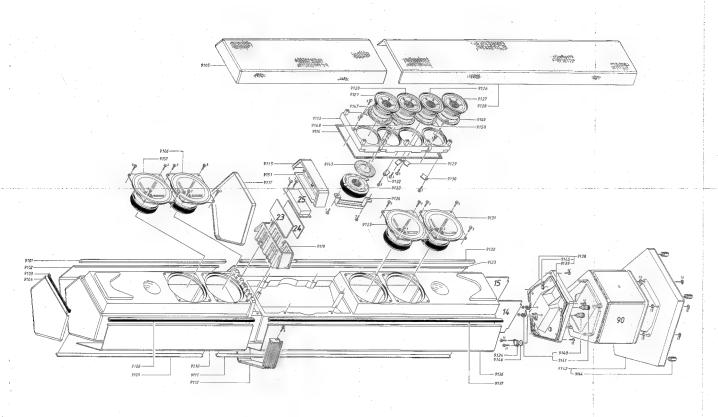
	x1	x10	x100	x1K	xiok	x100K	x1M	x10M
1.0 1.2 1.5		5011464 5011351 5011463	5011357 5011084 5011443	5010816 5011442 5011178	5010935 5011338 5011364	5011440 5011341 5011398	5011459 5011175 5011460	5020875
1.8 2.2 2.7	5011032	5011376 5011471	5011350 5010886 5011355	5011361 5011353 5011362	5011344 5010833 5011366	5011468 5011369 5011370	5011342 5011478	
3.3 3.9 4.7	5011363	5011438 5011038	5011337 5011817 5011441	5010827 5011157 5011363	5011346 5011457 5010937	5011371 5011372 5011343	5011462 5020876 5011611	
5.6 6.8 8.2		5011412 5011356 5011466	5011358 5011336 5011354	5010885 5010839 5011339	5011166 5011367 5011368	5011340 5011458 5011373		

8.2		5011466	5011354	5011339	5011368	5011373		
	5%	2%	2%	2%	2%	2%	5 %	5%
	x1	x10	x100	x1K	x10K	x100K	x1M	x10M
1.0	5011623	5011647	5011218	5011227	5011241	5011256	5011267	5011730
1.1	5011624	5011648	5011669	5011681	5011689	5011694	5011707	
1.2	5011625	5011649	5011219	5011682	5011490	5011257	5011708	
1.3	5011626	5011650	5011670	5011683	5011242	5011258	5011709	
1.5	5011627	5011651	5011220	5011228	5011243	5011259	5011710	
1.6	5011628	5011652	5011671	5011684	5011690	5011695	5011711	
1.8	5011629	5011653	5011672	5011229	5011244	5011260	5011712	
2.0	5011630	5011654	5011673	5011685	5011691	5011696	5011713	
2.2	5011216	5011655	5011674	5011230	5011245	5011261	5011714	
2.4	5011634	5011656	5011675	5011686	5011246	5011697	5011715	
2.7	5011635	5011657	5011497	5011231	5011247	5011262	5011716	
3.0	5011731	5011658	5011499	5011500	5011692	5011698	5011717	
3.3	5011217	5011659	5011676	5011232	5011248	5011263	5011718	
3.6	5011636	5011660	5011677	5011687	5011249	5011264	5011719	
3.9	5011637	5011661	5011221	5011233	5011491	5011699	5011720	
4.3	5011638	5011662	5011498	5011688	5011492	5011700	5011721	
4.7	5011639	5011269	5011222	5011234	5011250	5011265	5011722	
5.1	5011640	5011663	5011678	5011235	5011493	5011701	5011723	
5.6	5011641	5011664	5011223	5011236	5011251	5011702	5011724	
6.2	5011642	5011665	5011224	5011237	5011693	5011703	5011725	
6.8	5011643	5011666	5011225	5011238	5011252	5011704	5011726	
7.5	5011644	5011667	5011679	5011239	5011253	5011705	5011727	
8.2	5011645	5011270	5011226	5011240	5011254	5011266	5011728	
9.1	5011646	5011668	5011680	5011489	5011255	5011706	5011729	
	Clue dete appear 200 nest no 2191029)							

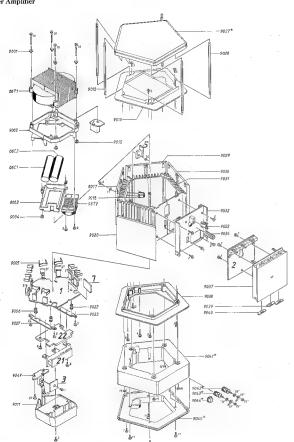
(Glue dots, approx. 200, part no. 3181932)

MEKANISK STYKLISTE	9101	2560224	Pynteliste, lille	Decorative moulding, small
IST OF MECHANICAL PARTS	9102	3302407	Kabinetside og -liste, lille	Cabinet side and moulding, small
ISI OF MECHANICAL PARIS	9103	2560219	Pynteliste, top	Decorative moulding, top
	9104	3458407	Kabinettop	Cabinet top
Beolab Penta	9105	3450668	Stoframme, lille	Cloth front, small
	9106	8480197	Bashøjttaler	Woofer
	9107	8480197	Bashøjttaler	Woofer
	9108	2560224	Pynteliste, lille	Decorative moulding, small
	9109	3452525	Kabinetliste, kort	Cabinet side, short
	9110	3302407	Kabinetside og -liste, lille	Cabinet side and moulding, small
	9111	3452524	Kabinetliste, lang	Cabinet moulding, long
	9112	3444181	Gitter	Griff
	9113	3440092	Baffel f/mellemtonehejttaler	Baffle f/midrange speaker
	9114	3947202	Skumtape i metermål	Foam tape by the meter
	9115	3320132	Dækglas f/display	Cover glass f/display
	9117 9119	3320100 3132125	Bånd Skuffe f/PCB	Frame
	9119	8480196	Mellemtoncheittaler	Tray f/PCB . Midrange speaker .
	9121	8480196	Mellemtonehøjttaler	Midrange speaker
	9121	2630024	Beslag f/mellemtonehøjttaler	Fitting I/midrange speaker
	9122	8480206	Diskanthøjttaler	Tweeter
	9124	3031125	Beslag f/diskanthoittaler	Fitting f/twester
	9125	8480197	Bashoittaler	Woofer
	9126	8480196	Mellemtonehøjttaler	Midrange speaker
	9127	8480196	Mellemtonehøittaler	Midrange speaker
	9128	3450667	Stoframme, stor	Cloth front, big
	9129	2630024	Beslag f/mellemtonehøjttaler	Fitting f/midrange speaker
	9130	2630024	Beslag f/mellemtonehøjttaler	Fitting f/midrange speaker
	9131	8480197	Bashoittaler	Wooder
	9132	2560243	Pynteliste højre, stor	Decorative moulding right, big
	9133	3302406	Kahinetside og -liste, stor	Cabinet side and moulding big
	9134	6275649	Ledningsbundt	Wire bundle
			m/7 pol. DLN stik - hun	w/7 pole DIN socket - female
		7210608	7 pol. DIN atik - hun	7 pole DIN socket - female
	9136	3302406	Kabinetside og -liste, stor	Cabinet side and moulding, big.
	9137	2560244	Pynteliste venstre, stor	Decorative moulding left, big
	9138	3454478	Bund m/tryk	Bottom w/print
	9139	3947202	Skumtape i metermål	Foam tape by the meter
	9140	7210596	Skrueterminal, sort	Terminal screw, black
	9141	7210595	Skrueterminal, rød	Terminal screw, red
	9142	8860250	Glassokkel	Glass socket
	9143	3340072	Pakning	Gasket
	9144	3103224	Fod	Foot
	9145	3103066	Gummifod	Rubber foot
	9146	2732084	O-ring	O-ring
	9147	3340070	Pakning	Gasket
	9148	3340070	Pakning	Gasket
	9149	. 3340070	Pakning	Gasket
	9150 9151	3340070 3183092	Pakning	Gasket
	9151	3183092	Afdækning f/display	Masking f/display
	14Modul	8006028	PCB14, Crossover Network/W	a oform Terrortor
	Tamodin	0000040	r CD14, Clossovel Retwork/ H	ooter of a coter
	15Modul	8006027	PCB15, Crossover Network/M	idrupme
	ADMOUNT.	00000021	T CDID, CT CDIOVE TICTION IN	.c.ange
	23Modul	8001173	PCB23, Microcomputer	
			,	
	24Modul	8001174	PCB24, Display Drive	

Beolab Penta



Power Amplifier Power Amplifier



* Kun i Beolab 200, type 173x

* Only in Beolab 200, type 173x

Bang & Olufsen

			_					
9001	2938154	Besning	Bushing					
9002	3152455	Holder i/elektrolytter	Holder f/electrolytes					
9003	3164608	Läg f/clcktrolytter Cover f/electrolytes						
9004	2938154	Bøsning Bushing						
0005	2819157	Bøjle Clamp						
9006	3152063	Holder f/PCB1	Holder f/PCB1					
0007	2542669	Vinkel f/PCB1	Bracket f/PCB					
011	3947202 3164742	Skumtape i metermäl f/vinkel Dæksel f/stikbrønd						
012	2076007	Gevindstykke	Cover f/socket					
1012	3162266	Sammenspændingsstykke	Assembling pi					
015	2938154	Besning	Bushing	CLE				
017	3164748	Dækplade m/tryk, type 6621		print, type 6621				
1021	3164749	Dækplade in/tryk, type 6622		print, type 6622				
	3164751	Dæknlade m/tryk tyne 6623		print, type 6623				
	3164753	Dækplade m/tryk, type 6624	Cover plate w/	print, type 6624				
	3164750	Dækplade m/tryk, type 6625	Cover plate w/	print, type 6625				
018	3152507	Ledningsholder	Wire holder					
1020	3164602	Dækplade	Cover plate					
022	3152063	Holder f/PCB1	Holder f/PCB1					
1023	2542669	Vinkel I/PCB1	Bracket f/PCB					
	3947202	Skumtape i metermål f/vinkel						
028	2076007	Gevindstykke	Threaded piece					
1029	3164603	Dækplade	Cover plate					
1030	3164602	Dækplade	Cover plate					
031	2568847	Køleprofil	Heat sink					
1032	3452527	Bagstykke, betjening	Rear cover, cor	itrol				
1033 1034	3034066	Lås f/låg Turkfinder	Lock f/lid					
1037	2812113 3168769	Trykfjeder	Pressure sprin	8				
1037		Betjeningspanel	Control panel					
1039	3162268	Sammenspændingsstykke	Assembling pl	ece				
1040	2776037 2776037	Knap omskifter Knap omskifter	Switch button Switch button					
1049	3152657	Holder f/netledning	Holder f/mains	load.				
1Madul	8001159	PCB1, Amplifier						
2Modul	8001165	PCB2, Control						
3Modul	8002905	PCB3, PCB without fuses and	mains lead					
	6271102	Mains lead, type 6621-6622						
	6270251	Mains lead, type 6623						
	6271016	Mains lead, type 6624						
	6270297	Mains lead, type 6625						
(Modul	8001166	PCB4, Relay						
- HOWELL	3917109	Damping material						
			1					
5Modul	8001167	PCB5, Bridge						
·	-301101	a and partigo						
6T1	8013369	Transformer, type 6621-6622-6	625					
	8013375	Transformer, type 6623						
	8013376	Transformer, type 6624						
6T2	8013370	Transformer, type 6621-6622-6	623-6625					
	8013377	Transformer, type 6624						
6C1	4200653	10000 uF 20% 80V						
6C2	4200653	10000 uF 20% 80V						
	3917109	Damping material						
7Modul	8001168	PCB7, Signal Level						
1Modul	8001169	PCB21, Input Socket						
1P4	7210518	8 pole DIN socket 21P6	7220746	Phono plug				
1P5	7210518	8 pole DIN socket 21P7		Loudspeaker socket				
2Modul	8001172	PCB22, Input Control						

Ikke viste dele		6275627	Ledningsbundt m/7 pol, DIN stik - han	Wire bundle w/7 pole DIN plug - male
Parts not shown		7220205	7 pol. DIN stik - han	7 pole DIN plug - male
		3040026	Topnegle	Socket spanner
		3922023	Dæmpemateriale	Damping material
		3922025		Damping material f/midrange,
			title	small
		3922024	stor	, Damping material f/midrange, big
		3946038	Folie i meter	Foil by the meter
		3397604	Skumemballage f/glassokkel	Foam packing f/glass socket
		3397555	Skumemballage mellemstykke	
		3397554	Skumemballage endestykker	Foam packing f/cnd pieces
		3391838 3397601	Yderæske Skumemballage f/bund	Outer carton
		3331001	Skumemoanage pound	Foam packing f/bottom
Oversigt over skruer, skiver m.m.	1	2013208	Skrue 2,9 x 9,5 mm	Screw 2.9 x 9.5 mm
Survey of screws, washers etc.	2	2039027		Screw 3 x 6 mm
Daz rej di bere rej remitere dett	3	2015088	Skrue 3,5 x 16 mm	Screw 3.5 x 16 mm
	4	2015116	Skrue 3,5 x 25 mm	Screw 3.5 x 25 mm
	5	2015201	Skrue 3,5 x 9,5 mm	Screw 3.5 x 9.5 mm
	6	2039026	Skrue 3 x 4 mm	Screw 3 x 4 mm
	7	2039028	Skrue 3 x 8 mm	Screw 3 x 8 mm
	8	2015008	Skrue 3,5 x 13 mm	Screw 3.5 x 13 mm
	9	2039014	Skrue 3 x 20 mm	Screw 3 x 20 mm
	10	2015115	Skrue 3,5 x 50 mm	Screw 3.5 x 50 mm
	11	2013107		Screw 2.9 x 9.5 mm
	12	2043016	Skruc 4 x 10 mm	Screw 4 x 10 mm.
	14	2380011	Metrik M3	Nut M3
	15	- 2380016		Nut M4
	17 20	2624013	Skive	Washer
	20	2015108 3170169	Skruc 3,5 x 16 mm Glimmerskive	Screw 3.5 x 16 mm
	21	2110103	Gilinmerskive	Mica washer
TILBEHØR		6270336	4 pol DIN skærmet	4-pin DIN shielded
ACCESSORIES			HT ledning - 5 m	speaker cable - 5 m
		6270352	4 pol DIN skærmet	4-pin DIN shielded
			HT ledning - 10 m	speaker cable - 10 m
		6270350	2 pol DIN skærmet	2-pin DIN shielded
			HT ledning - 5 m	speaker cable = 5 m
		6270417	8 pol DIN Power Link ledning - 2,5 m	8-pin DIN Power Link cable - 2.5 m
		6270418	8 pol DIN Power Link ledning	8-pin DIN Power Link cable
		6270419	8 pol DIN Power Link ledning - 10 m	8-pin DIN Power Link cable - 10 m
		7229075	Adaptor f/Power Link - 8 pol	Adaptor f/Power Link - 8-pin
			DIN hun/8 pol DIN hun	DIN female/8-pin DIN female
OWNER'S MANUALS		3506145	Dansk	Danish
		3506146	Svensk	Swedish
		3506147	Finsk	Finnish
		3506148	Engelsk	English
		3506149	Tysk	German
		3506150	Hollandsk	Dutch
		3506151	Fransk	French
		3506153	Italiensk	Italian
		3506154	Spansk	Spanish

5-1

Bang & Olufsen

JUSTERINGER

Tomgangsstrøm

Tomgangsstrøm justeres medens forstærkeren er kold og uden signal tilført.

Højttaler må ikke være tilsluttet.

DC millivoltmeter tilsluttes over modstandene 1R103/1R104, dvs. fra emitteren på 1TR32 til emitteren på 1TR27.

1R95 justeres til 30mV.

Offset

DC voltmeter tilsluttes højttalerudgangen.

1R59 justeres til 0 V.

Display

DC voltmeter tilsluttes stel og 24TP1.

Med potentiometer 24R40 justeres kontrastspændingen til 1,9V \pm 0,05V.

ADJUSTMENTS

No-load current

Adjust the no-load current while the amplifier is cold and without any supply of signal.

The loudspeaker must not be connected to the amplifier.

Connect the DC millivoltmeter across the two resistors 1R103/1R104, that is from the emitter of 1TR32 to the emitter of 1TR27.

Adjust 1R95 to 30mV.

Offset

Connect the DC voltmeter to the loudspeaker output.

Adjust 1R59 to 0 V.

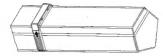
Display

Connect DC voltmeter across ground and 24TP1.

Use potentiometer 24R40 to adjust contrast voltage to 1.9V ± 0.05 V.

ADSKILLELSE Display

DISMANTLING Display



Dækslet afmonteres ved at trække i pilens retning.

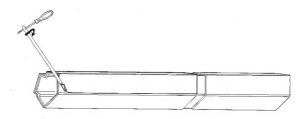
Dismantle the cover by pulling it in the direction indicated by the arrow.



Ved at løsne de 4 skruer kan display-enheden frigøres, og løftes ud i serviceposition.

By loosening the 4 screws the display unit become accessible and can be lifted up in service position.

REPARATIONSTIPS Udskiftning af rustfrit stål REPAIR HINTS Replacement of stainless steel



De rustfrie stålpaneler løsnes forsigtigt i et af hjørnerne.

Hjælpeværktøj bestillingsnr. 3629116 benyttes som vist på tegningen.

Loosen the stainless steel panels carefully in one corner.

Use the service tool, part no 3629116 as shown on the drawing.

ISOLATIONSTEST

Ethvert apparat skal isolationstestes, efter at det har været adskilt. Testen udføres, når apparatet er samlet igen og er klar til udlevering til kunden.

Der må ikke forckomme overslag under testen!

Isolationstesten udføres på følgende måde:

De to stikben på netstikket kortsluttes og tilsluttes den ene af terminalerne på isolationstesteren. Den anden terminal tilsluttes stel på phonobøsningen (LINE IN).

OBSI

For at undgå beskadigelser af apparatet er det vigtigt, at begge terminaler på isolationstesteren har virkelig god kontakt.

Spændingsreguleringen på isolationstesteren drejes langsomt op, indtil en spænding på 1,5-2 kV er opnåct. Her skal den holdes i ét sekund, hvorefter der langsomt drejes ned for spændingen igen.

INSULATION TEST

Each set must be insulation tested after having been dismantled. Make the test when the set has been reassembled and is ready to be returned to the customer.

Flashovers must not occur during the testing procedure!

Make the insulation test as follows:

Short-circuit the two pins of the mains plug and connect them to one of the terminals of the insulation tester. Connect the other terminal to ground in phono socket (LINE IN).

NOTE!

To avoid damaging the set it is essential that both terminals of the insulation tester have good contact.

Slowly turn the voltage control of the insulation tester until a voltage of 1.5-2 kV is obtained. Maintain that voltage for one second, then slowly turn it down again.

1603569 RL 140, Silvergrey

9001 3031311 Fitting, RL 60 3031312 Fitting, RL 140 9002 2570075 Stanchion, RL 60 2570077 Stanchion, RL 140 Base, RL 60, Grey 3103304 3103330 Base, RL 60, Black 3103331 Base, RL 60, Silvergrey 3103305 Base, RL 140, Grey 3103334 Base, RL 140, Black

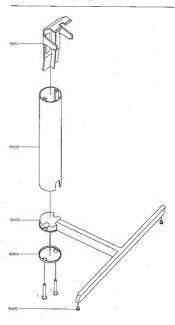
9004 3103335 Base, RL 140, Silvergrey 9004 3454675 Bottom, RL 60 3454676 Bottom, RL 140 9005 3033055 Silde Shoe

Screws

Parts not shown

1 2046013 Screw 6 x 20

3392142 Wrapper, RL 60 3392141 Wrapper, RL 140 3397717 Foam packing, Bottom, RL 60 3397718 Foam packing, TOP, RL 60 3397715 Foam packing, TOP, RL 140 3397716 Foam packing, TOP, RL 140



To paste into Servicemanual 39xx 3538757, 3538758

90-12

VZZ063